



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

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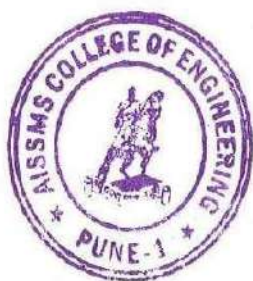


NAAC Criteria 1

NAAC Criteria -1.1: Curricular Planning and Implementation

- 1.1.1 The institution ensures effective curriculum delivery through a well-planned and documented process including academic calendar and conduct of continuous internal assessment

| Process of effective curriculum delivery through a well-planned documentation |
|---|
| 1. Process Manual |
| 2. University Academic Calendar Academic Year 2022-23 |
| Adherence to Academic Calendar |
| 3. Institute Academic Calendar Academic Year 2022-23 |
| 4. Department Academic Calendars Academic Year 2022-23 |
| 5. Master Time Tables Academic Year 2022-23 |
| 6. Activities carried out in the department as per academic planner Academic Year 2022-23 |
| 7. Academic Review Process |
| Continuous Internal Assessment |
| 8. Internal Unit Test Evaluation |
| 9. Assignment Evaluation |
| 10. Project Evaluation |
| 11. Term work Evaluation-CAS |
| 12. Course End Survey |
| 13. Stakeholder's feedback and action taken report |




PRINCIPAL
ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING
KENNEDY ROAD, PUNE-411 001



**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE**

**PROCESS MANUAL
FOR

CURRICULAR PLANNING
AND
IMPLEMENTATION**

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1. PREAMBLE

The All India Shri Shivaji Memorial Society's College of Engineering, Pune is a co-education Institute established in 1992. The College of Engineering is affiliated to the Savitribai Phule Pune University, Pune. It conducts AICTE approved courses leading to the degree of Bachelor of Engineering (BE) in eight engineering streams and Master of Engineering (ME) in seven engineering streams. Institute has highly qualified and experienced faculty on its roll. The laboratory, computer and library facilities in all Departments are well developed. The College also has a Central Library and Central Computing Facility. Institute gives substantial emphasis on the teaching learning process. An institute also provides unlimited broadband internet facility to the students. Besides national journals, international journals are made available to the students and the faculty. The teaching programme also gives emphasis on practical training and internships. The ICT facilities and other e-learning resources are adequately available in the institute for academic purposes. The institute has following vision and mission.

Vision:

Service to society through quality education

Mission:

- Generation of national wealth through education and research
- Imparting quality technical education at the cost affordable to all strata of the society
- Enhancing the quality of life through sustainable development
- Carrying out high quality intellectual work
- Achieving the distinction of highest preferred engineering college in the eyes of the stake holders

The vision and mission statements of the institute are communicated through parents' meet, student meetings, orientation of faculty and staff, department meetings with faculty and staff, Department Advisory Board (DAB) meetings etc. The vision and mission statements of the institute are displayed at prominent places. The planning and implementation of curriculum is carried out in most effective manner through a well planned and documented process.

2.CURRICULAR PLANNING

The Curriculum is prepared by the concern Board of Studies (BOS) consisting of experts from the Industry, academia, members of BOS etc. The curriculum is finally approved by the academic council of University and displayed on University website. At the beginning of each academic year the affiliating University gives academic calendar and guidelines about the dates of commencement of the semester, end of the semester, In-semester and End-semester examinations, Online examinations, Oral, Practical examinations, holidays etc.

Principal receives inputs through IQAC, Department Advisory Board (DAB) and Academic co-ordinators etc. Based on these inputs Principal, Head of the Department (HOD), Institute Academic Coordinator (IAC), GSA committee members, Head- Cultural activities discusses and prepares the academic calendar for the college. These are documented by IAC. It is then distributed to all the departments. Each department prepares their Department Academic Calendar in consultation with Head of the Department. Principal held a common meeting with all teaching and non teaching staff before commencement of semester. Students are also made aware of commencement of semester through a common notice and also SMS sent through ERP system.

Head of the Department is to conduct a meeting with all staff before commencement of semester. The course allotment is done by Head of the Department and teaching plan of each course is prepared in line with department academic calendar by individual course teacher in ERP. The planning and implementation of curriculum is being monitored through Academic Monitoring Committee. This committee decides the role and responsibilities of Department Academic Coordinator (DAC), Guardian Faculty Member (GFM), Mentor, Subject Teacher etc.

2.1 ACADEMIC DEVELOPMENT AND MONITORING COMMITTEE (ADMC)

Vision of All India Shri Shivaji Memorial Society's College of Engineering is "Service to Society through Quality Education". In order to impart Quality technical education an Academic Development and Monitoring Committee (ADMC) is established at institute level to develop strategies, rules, regulations and policies for creating an environment conducive for teaching learning process and effective planning and implementation of curriculum. The ADMC is headed by Principal and comprises of Institute Academic Coordinator (IAC), Heads of all departments (HOD) supported by Program Assessment and Quality Improvement Committee (PAQIC), and Department Academic Coordinators (DAC). ADMC is responsible for planning and monitoring of overall academic operations, activities, procedures, functioning and maintaining all relevant documents and files in association with various committee/coordinators of the department. Based on the inputs received from Principal, Heads of the Department (HODs), and GSA committee members, In-charge of Extra

and Co-curricular activities an academic calendar for the college is prepared by institute academic coordinator and circulated to all the departments. Each department prepares their Department Academic Calendar in consultation with Head of the Department. Principal held a common meeting before commencement of the semester. Students are also made aware of commencement of term through a common notice/Emails/SMS/through ERP system. Thus AMDC striving to achieve institute vision through mission statement M2, M4 & M5.

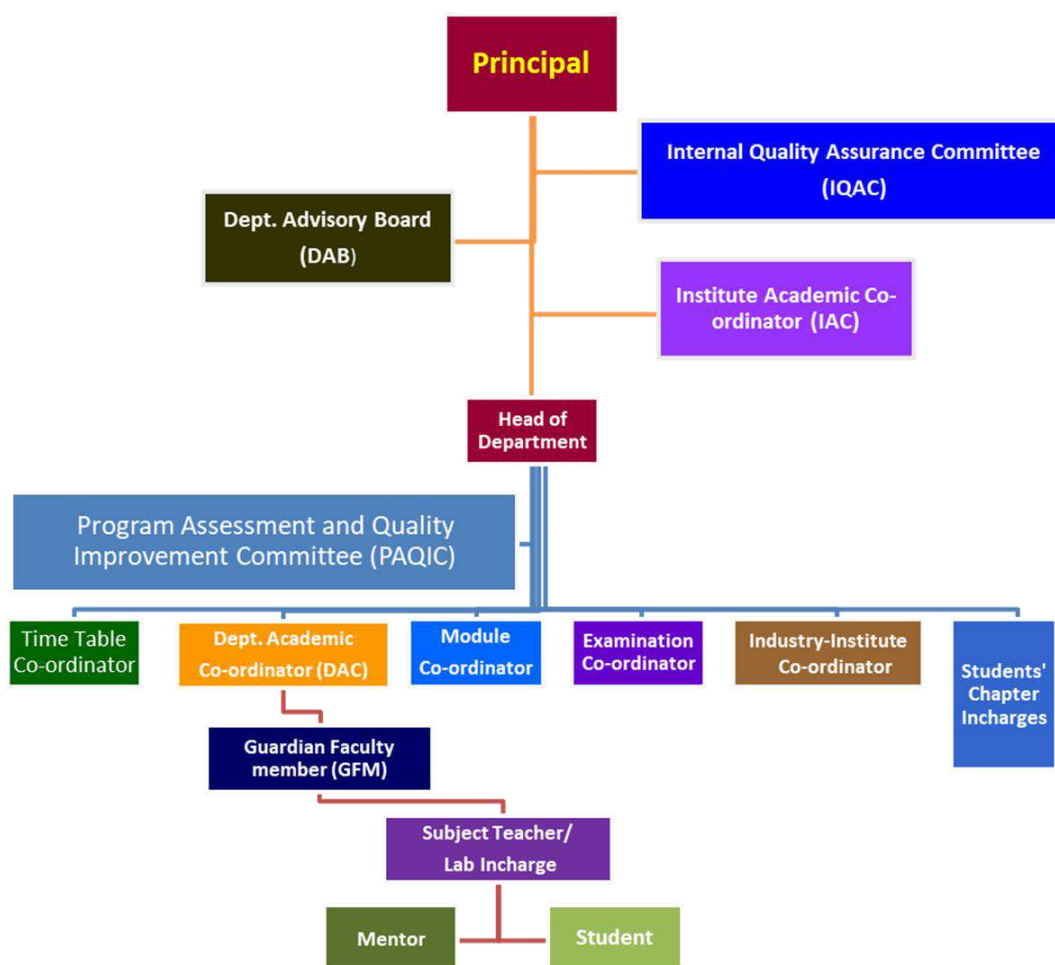


Figure 1. Organisation structure

Objectives:

- 1) Academic planning and implementation.
- 2) Imparting guidelines for upgrading innovative and creative teaching learning process, methodology, tools and techniques at periodic intervals by implementing advanced concept of pedagogy, ICT, learning management system, student centric methods, participative learning etc. for enhancing teaching and learning experience.

- 3) Conduct academic audit and suggest suitable methods for quality improvement and quality assurance.
- 4) To develop methodology for internal assessment.
- 5) To encourage students to participate activity based teaching learning, co-curricular activities and MOOCs for self-growth.
- 6) Planning of various co-curricular and extra-curricular activities.
- 7) Planning for Students Induction Programs.

Functions:

Functions Academic Development and monitoring committee:

- 1) Prepare Institute and Department Academic Calendar.
- 2) Ensure work load distribution, timely display of Time-Table, examination schedule, feedback schedule.
- 3) Monitoring of academic activities such as Preparation of teaching plan, Syllabus coverage, Students reporting at the beginning of semester, Student attendance, Faculty Feedback etc. through department academic coordinators and GFMs.
- 4) Notify to update academic related activities on ERP.
- 5) Mid-term academic reviews.
- 6) Finalize dates for annual events (e.g. Shivanjali, Ashwamedh, Engineering Today etc.)
- 7) Collect result analysis of all departments.
- 8) To notify regarding conduction of pre-requisite tests, Faculty feedback, Course end survey, Exit survey, Student satisfaction report, feedback on curriculum etc.
- 9) Ensure formulation of Program Assessment and Quality Improvement Committee at department level.
- 10) Frame policies regarding projects.
- 11) Participation in Academic Audits arranged by IQAC.

Standard Operating Procedure:

This committee work throughout the year as mentioned in Standard operating procedure. The functions Academic Development and monitoring committee are implemented following a standard operating procedure :

| S N | Activity | Responsibility | Target days / dates |
|--------|---|-----------------------|--|
| 1 | Preparation of Academic Calendar: Institute and Department | IAC & DAC | One week before commencement of Term |
| 2 | Elective Choices | HoD | |
| 3 | Load Distribution | HoD | |
| 4 | Preparation of Time Table | Time Table In-charge | |
| 5 | GFM and Mentor appointments | HoD | |
| 6 | GFM meeting | GFM | Fornightly |
| 7 | Planning and Conduction of Internal Examinations | Int. Exam Coordinator | As per academic calendar |
| 8 | Display of Defaulter List | GFM | Fortnightly |
| 9 | Students Feedback | GFM & Feedback I/c | Twice in a semester |
| 10 | Project Reviews | Project Coordinator | |
| 11 | Course End Surveys | Individual Teacher | Last week before term end |
| 12 | Graduate Exit Survey | DAC | Last week before term end of Final Year Students |

List of forms and formats to be used:

Following formats are to be used as issued by Institute-Academic Coordinator time to time:

- 1) Academic calendar
- 2) Load distribution Format
- 3) Time-table Format
- 4) GFM meeting record Form
- 5) Continuous Assessment Sheets (CAS)
- 6) Internal examination question paper format
- 7) Assignment Format
- 8) Course-File Index
- 9) Graduate exit survey format
- 10) Course File verification Forms (Part-A and Part-B)
- 11) Personal File verification Forms.

2.1.1 ROLE OF INSTITUTE ACADEMIC COORDINATOR (IAC)

The Institute Academic Coordinator should responsible for following activities:

- a. The Institute Academic Coordinator (IAC) in consultation with Principal and Heads of Department will form an Academic Monitoring Committee comprising of Heads of all departments (HOD) and Department Academic Coordinators (DAC).
- b. The IAC will provide guidelines to department coordinators and collect information from departmental coordinators and convey it to the Principal for corrective measures, if required.
- d. AMC will prepare Academic Calendar and submit the same to Principal for approval and same is to be forwarded to all the departments at least 15 days before commencement of semester. In consultation with Principal and the Heads of Departments, DAC should collect the following information for smooth conduction of academics.
 - i. Term start and end dates.
 - ii. Public Holidays.
 - iii. Dates for Mid Term Tests, End Term Test.
 - iv. Schedule of faculty feedback.
 - v. Schedule of Industrial Visits, Guest Lectures.
 - vi. Dates for annual events (e.g. Shivanjali, Ashwamedh, Engineering Today etc.)
 - vi. QIPs (short term courses, guest lectures, FDP, STTP, conferences, seminars) if any
 - ix. Term work submission dates
 - x. Guidelines for make-up-classes and remedial classes.

2.1.2 ROLE OF DEPARTMENT ACADEMIC COORDINATOR (DAC)

The Department Academic Coordinator should monitor:

- a. Display of Class time table, timely distribution of individual time table.
- b. Activities of Guardian faculty Member for smooth conduction of academics.
- c. Students' Attendance monitoring through ERP.
- d. Syllabus coverage monitoring through ERP.
- e. Records of sending letters/SMS to the parents regarding their wards' performance.
- f. GFMs' Records, Mentors' records.
- g. Record of make-up classes.
- h. Display of monthly attendance, defaulter list, unit test marks etc.
- i. Collect departments' performance report and submit a comprehensive report to the

Head of Department and Principal.

- J. To conduct GFMs' meeting or interaction with subject teachers (if required) and prepare minutes of meeting.
- k. Various feedback like Turn-I (Mid Sem) & Turn II (End Sem) through ERP, Course end survey, Exit survey, student satisfaction report etc. related to academics.
- l. Executing Academic Audit for each semester.
- m. Forwarding information about not reported, late reported faculties to lecture/practical if any to HOD/IAC/Principal for necessary action.

2.1.3 ROLE OF GUARDIAN FACULTY MEMBER (GFM)

- a. Ensuring the Roll call list, batches, students' and their parents/ local guardians' data with address, mobile number, email ids etc. is in place.
- b. Collection and maintenance of Theory and Practical Attendance Record (through ERP) from subject Teachers and to prepare defaulter students' list fortnightly.
- c. Monitoring conduction of lectures and Practical regularly and making alternative arrangements in case of faculty is on leave and see that same must be recovered by subject teacher taking extra lectures if required. He will also inform the Head of Department about making substitute arrangement for lectures and practical when a faculty is on leave.
- d. Displaying defaulters' list and prepare schedule for make-up classes.
- e. Communicating internal examination time table and other academic activities to the students well in advance.
- f. Preparing provisional and final detention list and displaying on notice board in consultation with DAC and HOD.
- g. Monitoring the syllabus completion (Theory and Practical) fortnightly and submitting the report to Department Academic coordinator.
- h. Collection of records of make-up classes.
- j. Maintaining informal feedback from students (if any).
- k. Conduction of subject teachers meeting on every Friday and keep record of it.
- l. Monitoring late reporting student.

2.1.4 ROLE OF SUBJECT TEACHER

Subject Teachers will be responsible for all the academic aspects for

- a. Preparing and maintaining course file, taking attendance for each lecture/practical.
- b. Maintaining the daily attendance report and send SMS to the parents of absent students.
- c. Providing subject notes, unit-wise question bank, assignments to students.
- d. Periodic conduction of internal examinations, make-up classes, lectures for slow learners etc.
- e. Updation of personal file.
- g. Preparation of knowledge wall.
- h. Contribution towards holistic development of the student.
- j. Industrial Liaison, training and visits.
- k. Development of teaching material, planning of lessons, setting up laboratories and experiment, unscheduled teaching activities such student counselling, setting and evaluating test papers, arranging and conducting tests, conduct of Local/University examinations, implementation of project for students, setting and evaluation.
- l. Curriculum Development due to the ever expanding demand of knowledge and changing needs of the industry.
- m. Student's activities as an adviser to student associations, co-curricular and extra-curricular activities.
- n. Administration which may be departmental and or institutional as member/convener of some committee.
- o. Professional activities i.e. involvement in professional and technical societies.
- p. Continuing education activities (FDP/STTP/Seminars/Workshops/Expert Lectures etc.) both as an organizer and (or) as a participant.

2.1.5 OBJECTIVES AND ROLE OF A MENTOR COORDINATOR

Objectives of Mentoring

- To understand the students' needs and potential
- To personally help the students to improve upon in academics, soft skills, personal development etc.
- To guide the students to overcome the problems in academics and personality development.

- To enhance peer interaction.

Role of Mentor Co-ordinator:

- a. Departmental Mentor coordinator should distribute the hard copy of required formats to the department mentors.
- b. Departmental Mentor coordinator must maintain the list of the students and respective mentors.
- c. Departmental Mentor coordinator must monitor the records of all department mentors on 2nd and 4th Friday of every month and report to the HOD.
- d. Departmental Mentor coordinator must collect the records from all the mentors at the end of every semester and retain in the department with HOD.
- e. Departmental Mentor coordinator must handover the mentor records of earlier semester to next mentors at the beginning of semester through HOD
- f. Departmental Mentor coordinator should conduct the meeting once in the month within department and maintain the minutes.
- g. Departmental Mentor coordinator will sign on telephone/Mobile bill of individual mentors before sending to office through HOD for claims.

2.1.6 ROLE OF A MENTOR

Roles and Responsibilities of Mentors

- a. To collect the list of allotted students and formats for updating the students' records from HOD.
- b. To collect the "student's Information" from the respective GFM.
- c. To establish the contact with the parents through telephonic discussion, appraise them about the development of their ward.
- d. Conduct meeting with students once in two week.
- e. To act as a Counsellor, Guide and Philosopher of the student.
- f. To encourage the student to have open dialogue.
- g. To record the observations about the student viz. achievements, doubts, fears, grievances.
- h. To evaluate the student's ability, strengths and weaknesses.
- i. To help the students to over-come their weaknesses and strengthen the abilities to excel in his/her defined objectives.
- j. To submit the files complete on all respect to Head of Department (HoD) at the end of term. Mentors can collect those files from HoD before the start of next academic Session.
- k. Update students' information on ERP.
- l. To report the weak cases to the Students' Counselling Cell, as well as those cases

Wherever special assistance is required, through HoD.

- m. HOD/Department coordinator of First year engineering shall handover the Mentor Record to respective department HOD at the end of every academic Year.
- n. To maintain utmost secrecy about the matters disclosed by the student during counseling.
- o. To maintain the following records
 - i) Student Information
 - ii) Mentoring Record of students according to academic, Psychological, financial.
 - iii) Attendance of student about mentor meeting.

2.1.7 ROLE OF A LABORATORY INCHARGE

- a. Dissemination of Vision, Mission statements into laboratory.
- b. Maintain dead-stock register.
- c. Preparation of laboratory manual.
- d. Display of information related to Lab time-table, Total laboratory cost, List of major equipment, Lab area, Standard operating procedures (SOPs).
- e. Display of Models, Charts, Slides etc.
- f. To monitor condition of an equipment, to conduct preventive and predictive maintenance, calibration, annual maintenance contract of laboratory equipments.
- g. Suggest new equipments to meet the need of teaching, erection/installation and commissioning of new equipment, Procurement of consumables etc. before the implementation of revised syllabus(if any).
- h. Determine size of the batch, Number of sets, Demonstration kits etc. to be arranged.
- i. Preparation of Continuous assessment sheet for batch allotted to you.
- j. Preservation of sample Journal copy.
- k. Conduct mock practical/ or oral examination for batch allotted to you.
- l. Maintain laboratory utilisation register, equipment utilisation for specific work.
- m. Maintain testing and consultancy (if any) records conducted in laboratory.
- n. Periodic feedback from students about working of instruments and special need.
- o. Make a laboratory budget.
- n. Monitor laboratory safety and cleanliness.

3.0 PROCESS OF EFFECTIVE CURRICULAR IMPLEMENTATION:

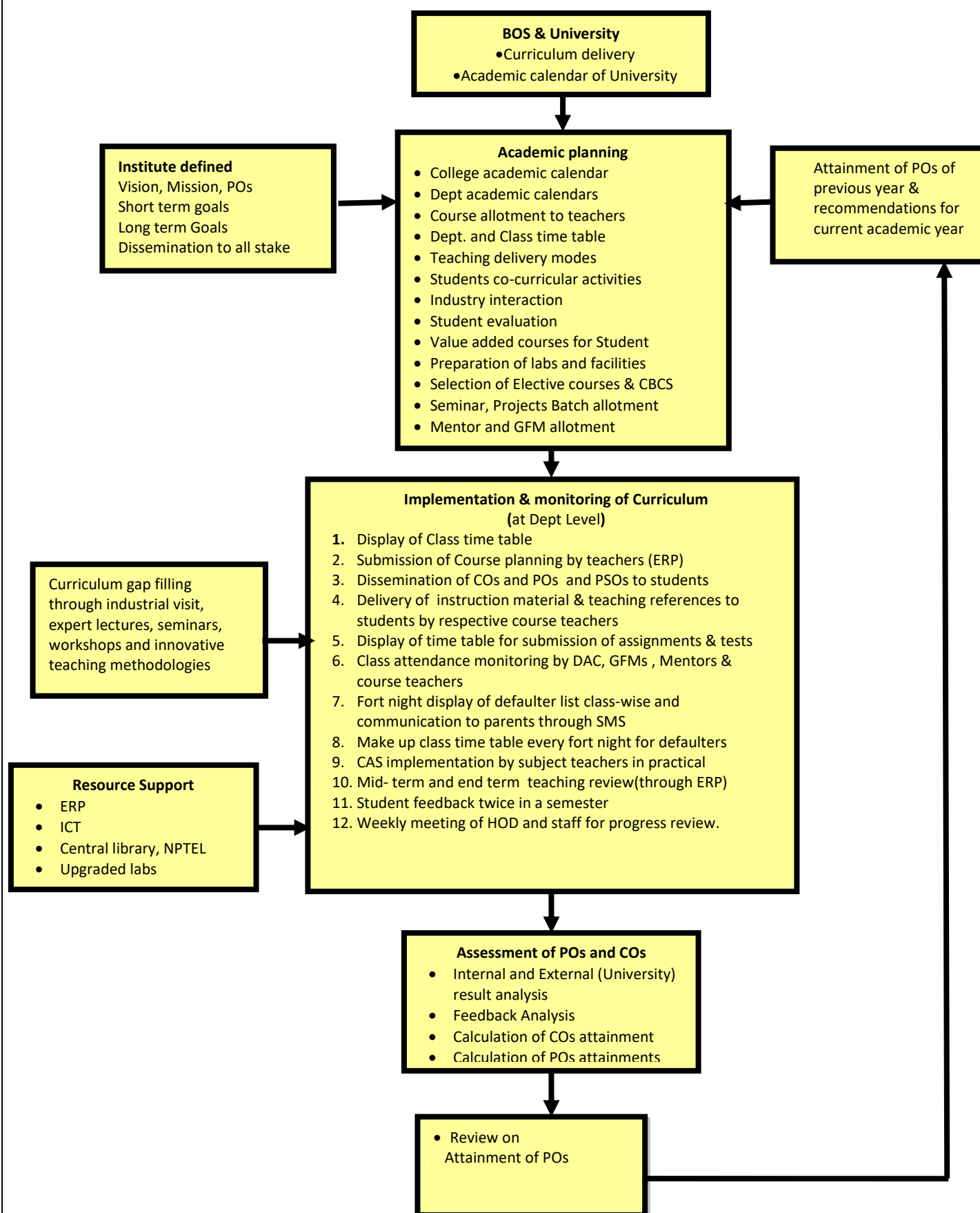


Figure 2 Effective curriculum planning and implementation process

The implementation of curricular is carried through a systematic procedure as shown in the flow chart (Fig. 2) and explains in detail as:

3.1 Preparation of Teaching Plan

University prescribes the syllabus which specifies the number of lectures, list of recommended books and assessment scheme of internal and external marks. HOD distributes the teaching load by considering the subject choice form filled by the faculty members. In order to have smooth conduct of curriculum, HOD allocates the load according to faculty competency. The activity is carried out immediately after the end of the previous semester so that faculty members get sufficient time for the preparation of the subject assigned to them for the next semester. Every faculty member prepares a teaching plan of entire semester in-line with the department's academic calendar. To prepare and maintain documentation, the institute provides the facility of Enterprise Resource Planning (ERP) system. Detailed unit-wise and date-wise plan is prepared by individual faculty using ERP.

Schedule of Internal (Mid Term & End Term), Online, In semester, external examinations are displayed time to time. Training, induction, guidance is imparted to newly joined faculty for building and maintaining academic culture in the college. An induction programme is conducted for First Year Engineering students before start of semester. Imparting guidelines for upgrading innovative and creative teaching learning process, methodology, tools and techniques at periodic intervals by implementing advanced concept of pedagogy, ICT, learning management system, student centric methods, participative learning etc. for enhancing teaching and learning experience. Figure 2 shows the process of effective curriculum planning and implementation.

3.2 Curriculum Delivery

The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, presentations/seminars, mini projects, in-house and industry supported projects, tutorials, group assignments, tutorials, case studies, industry visits, industrial training, internships, hands-in-sessions, e-learning, NPTEL lectures, MOODLE, knowledge wall, technical quiz, assignments, internal-tests etc. As shown below.

Training needs of faculty are identified by the head of the department. Faculty is encouraged to attend short term training programs (STTPs), faculty development programs (FDPs), Seminars, Workshops, Industry Training etc. to bridge the need.

Contents beyond curriculum are identified and taught both in the classroom and in the laboratory to expose student learning to recent trends in the industry.



Figure 3 Effective course deliveries

3.3 Academic Monitoring Process

Academic coordinator, HOD and GFM monitors the progress of syllabus coverage every fortnight through ERP. The number of lectures planned and the number of lectures actually conducted facilitates identification of gaps, if any, and necessary corrective actions are taken for filling the gap.

Following activities related to academic monitoring are carried out through ERP:

- Preparation of Timetable: Class wise, Laboratory-wise, Classroom-wise, Individual,
- Preparation of Teaching Plan
- Attendance Monitoring: (Subject-wise, Class-wise, Percentage-wise)
- Syllabus coverage Monitoring
- Students feedback
- Communication to parents through SMS.

3.4 Process to identify slow learners

The students are traced during their academic journey in the college and special efforts are made to bring slow learners (students with certain limitations) to come at par with the average/above average group. Students with good background and skills are guided to higher levels of achievements and encouraged towards challenging goals.

The FE learning level data is shared by the team of first year Guardian Faculty Members(GFM) and Mentors, pre-requisite tests and previous semester results to evaluate the student learning level as advanced learner or slow learner. The GFM/Mentors, in weekly meetings with all faculties of respective classes, carry out discussion based on analysis records available about students' levels, abilities, characteristics, skills, attitudes, examination results (internal and external) and their current day to day interactions/experiences. Based on this evaluation, feedback is given to students and special programs/activities are undertaken.

This data analysis done at entry stage is referred by GFM's/Mentors of FE classes and also passed subsequently to GFM's/Mentors of next classes. The GFM's and Mentors of second year onwards carry forward the FE activities at individual departments. Students attendance is also being monitored through ERP software on every week and list of defaulter students are displayed on department notice board. Attendance of students is regularly being informed to the parents through SMS facility. College had made special provision of exhaustive soft skill training and exclusive counselling, to mould the slow and advanced learners to plan their careers and placements. Through this process slow learner are identified and following activities are carried out for them.

Activities for Slow learners:

- Tutorial
- Special Notes
- Question bank
- Extra lectures
- Extra Practical sessions
- Re- test for improvement
- Personal Attention in teaching
- Remedial and Make-up classes
- Mock oral/practical examination
- Counselling – special hints and techniques
- Guidance for Seminar/Project presentation

- Assignments and Solving university question papers

3.5 Encouragement to Advance Learners

In order to promote advanced teaching and learning methodologies to give motivation to learn, higher retention of knowledge through better understanding, increasing depth of knowledge and developing positive attitude to the subject taught following activities to be planned.

a) Advance learning: We adopt active learning by involving students in the learning process more directly through following activities;

- Activities on technical content of syllabus like brain storming, quiz, debate, group discussions, role play, games, model making, mini project, presentations, essay, elocutions, case studies
- Use of animation software, V-LAB
- Active learning experiences through hands on training.
- Challenging students to take up open ended problems requiring critical/creative thinking through active participation in state and national and international level competitions such as BAJA, SUPRA, EFFI-CYCLE, GO-CART, AVISHKAR, AERO-DESIGN etc.
- Use of team based learning and participative learning to do some short term projects.
- Brief demonstration, case studies etc.

b) Collaborative Learning: We implement collaborative learning by forming student teams working together to solve a problem, complete a task, or design a product. Team works are done in activities like group projects, joint problem solving, debates etc.

c) Inquiry-based Learning: We make our classrooms as open systems where students are encouraged to search and make use of resources beyond the classroom for investigation of open questions/problems, developing their critical thinking and increasing understanding levels by performing review of research papers, Surveys etc.

d) Cooperative Learning: Focusing on cooperative learning methodologies by distributing the tasks to small group. Students work together to maximize their own and each other's learning in IE student chapter study circle and while performing various activities using think-pair-share, round table and one minute paper technique.

e) Project based Learning: We assign students different tasks, assignments, portfolios, activities in which students engage in complex, challenging problems and collaboratively work toward their resolution by using inter-disciplinary knowledge to solve problems. Example BAHA, Garudashwa projects.

f) Peer Led Team Learning: We provide an environment for students to engage in intellectual discussions and work in problem-solving teams under the guidance of a peer leader to perform activities like designing and developing software for different competitions in our technical fest.

g) Just-in Time learning: For some subjects, we are making our students to do a pre-class activity, submit responses to this activity and then we use these responses to tailor class to the specific needs of the students.

h) Experiential learning: We are adding field based experiences, Internship, practicum, cooperative education, service learning and class based experiential learning by conducting activities like role plays, games, case studies, simulation, virtual lab, presentations and various types of group work.

i) Project based learning: The mandatory BE project is converted to a learning platform by using various tools of project management, solving real time challenges and giving the satisfaction of achieving the goal at the end of completing the project.

Activities to be carried out for Advanced learners :

- Encouragement to complete NPTEL certification courses
- Participation in incubation centre as Organic BOT
- Induction in Clubs like Robotics, Drone etc.
- Implementation of research papers
- Participation in Seminars and Conferences
- Motivational guest talks
- Paper publication and presentation
- Workshop and seminar on current trends
- Model making/building
- Motivation and Guidance for higher studies (GRE, GATE, competitive exams)
- Industry visits and Industry sponsored/research project
- Patent filing process
- In house Mini-projects (over and above the syllabus)
- Project competition like NDRF, AVISHKAR, BAHA, SUPRA, GO-CART, ET
- Encourage students to participate in professional body activities and memberships such as, Institution of Engineers IE(I), Indian Institute of Chemical Engineers (IChE), American Institute of Chemical Engineers (AIChE), SESI, SAE, ISTE, CSI, ISHRAE, TRIZ association of Asia activities, Indian Concrete Institute (ICI) etc.

3.6 Feedback Process

Student's feedback about teaching a course is collected for all courses twice in a semester through the ERP system.

Frequency of Feedback: Per Semester Mid Term and End Term.

Mid Term feedback is taken after the first 30 to 40 days of teaching. Corrective actions are taken after this feedback. End Term feedback is taken at the end of the semester.

The following questionnaire is set for feedback.

1. Has the teacher covered the entire syllabus as prescribed by university, college, board?
2. Has the teacher covered relevant topics beyond syllabus?
3. Pace on which contents were covered.
4. Motivation and inspiration for students to learn.
5. Clarity of expectations of students.
6. Feedback provided on students' progress
7. Effectiveness of teachers in terms of technical e-course content, communication skills and teaching aids
8. Support for the development of student's skill practical demonstration through V-Lab, Video demonstration, You-tube videos
9. Support from teacher during pandemic for addressing student's issue.

A rubric is followed to assess the syllabus covered by the faculty, pace of teaching, topic covered etc. is shared with students through ERP for evaluation of the faculty. Each question is assessed on a 5 to 1 scale. (5- Excellent, 4- Very Good, 3- Good, 2- Satisfactory and 1- Non-satisfactory). At the end of the feedback collection process, reports are generated in ERP showing a performance index. The method of obtaining feedback performance index is as follows.

Let total N students in a class participate in the feedback process and n_1, n_2, n_3, n_4 and n_5 be the number of students giving feedback as Excellent, Very Good, Good, Satisfactory and Non-satisfactory, respectively. Each question in the questionnaire is assessed on a 5 to 1 scale (5- Excellent, 4- Very Good, 3- Good, 2- Satisfactory and 1- Non-satisfactory). The method of obtaining feedback performance index is as follows.

$$N = n_1 + n_2 + n_3 + n_4 + n_5$$

Total marks obtained for a question = $5 \times n_1 + 4 \times n_2 + 3 \times n_3 + 2 \times n_4 + 1 \times n_5$

Maximum marks = $5 \times N$

Feedback obtained = (Total marks obtained for a question / Maximum marks) X 100%

The procedure is repeated to get feedback obtained for all questions in the questionnaire. The performance index is simply an average of the percentage feedback thus obtained. This index is mentioned in the feedback report.

Faculty are provided with letters of appreciation or improvement based on performance index. This index is used for measuring the quality of teaching & learning. For the performance index of 75 and more, appreciation letters are issued by the Head of the Department. For a lower index, the Head of the Department issues improvement

Reward / Corrective measures:

1. Faculty members, with more than 75% feedback, were motivated to continue their hard work and explore the scope of further improvement.
2. Faculty members with less than 75% feedback were asked to discuss any kind of problem or issue being faced by them in subject content, preparation and delivery of lecture. They were motivated to attend faculty development programs in order to improve modes of teaching. They were also advised to go through video lectures available online.

3.7 Evaluation Process

Internal assessment is carried out through internal class tests, assignments, course activity etc. University examination is conducted as per schedule prescribed by the university and termed as external assessment. As per revised 2019 course in semester examination is carried out on first two units and end semester examination on last 4 units. External Assessment (University examination) and internal assessment tools are used for mapping of CO-PO-PSO.

Assessment Tools

a. Direct Assessment Tools: Continuous Assessment, Class tests, retest, In-sem Examination and End Sem- examination (University).

b. Rubrics: A Rubric explains to students the criteria against which their work will be judged with "scoring rules". This criterion helps the students in developing, revising, and judging their own work.

c. Indirect Assessment Tools

Programme level statistics: At the end of semester the statistics of students who have participated in professional bodies/student chapters/workshops/seminars/conferences/paper presentations/internships/industry visit etc. are prepared. This is considered to indirectly assess the PO's.

Survey reports: Indirect assessment strategies may be easily implemented by conducting the Course End Survey, Graduate Exit Survey, Alumni Survey and Employer

3.8. In-put for curriculum development

Each course has defined COs that are mapped to the PO's. The POs are achieved through a curriculum that offers a number of core courses as well as elective courses. A set of performance criteria is used to provide quantitative measure of how well the COs are achieved. The mapping of COs with POs and PSOs of the program are considered by the individual staff and feedbacks from stake holders such as, students, alumni, parents, industry, teachers to give input in framing the syllabus which will be communicated to Board of Studies (BOS) members to modify in the syllabus through faculty participating in various syllabus design and implementation work-shops and separately through E-mail. The suggestions given by individual staff are incorporated by BOS for curriculum enrichment.

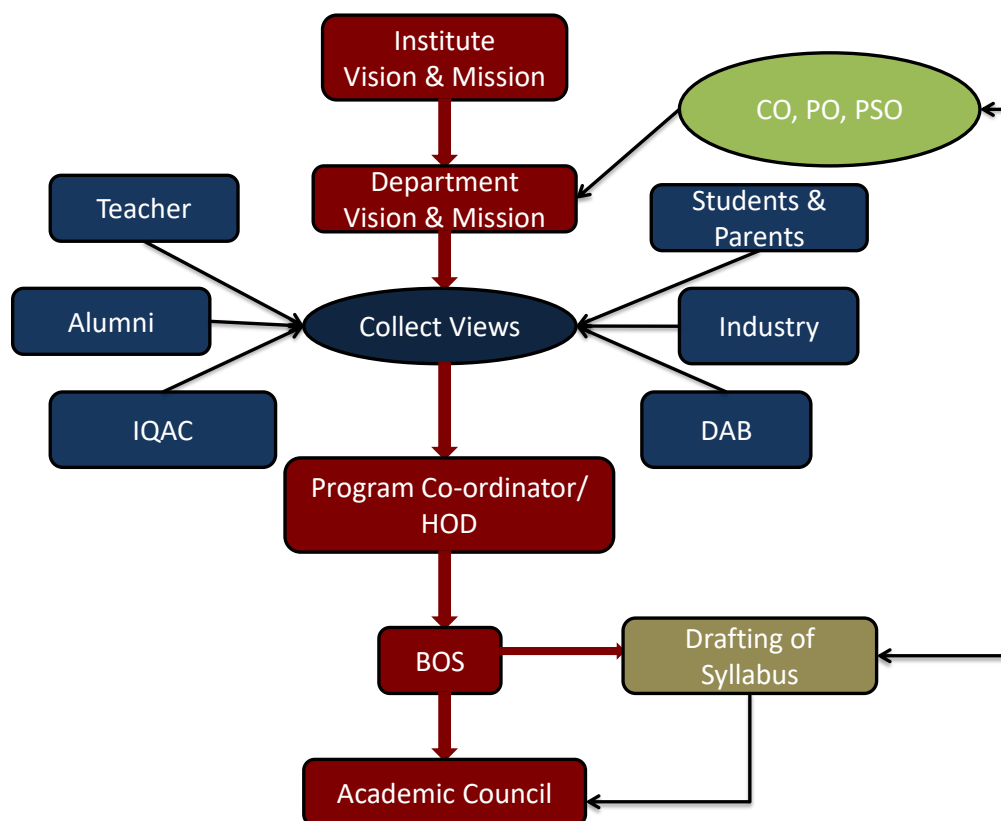


Figure 4 curriculum development

4.0 Service activities

For holistic development of student, institute conducts service activities and following administrative setup is put in place to ensure the achievement of POs and PSOs

- Gymkhana Cell
- Alumni Association
- National Social Service (NSS)
- Guidance and Counselling
- Industry-Institute-Interaction
- Entrepreneurship Development Cell
- Institution Magazine, Bulletins, Newsletters etc
- Annual Day Celebrations and cultural activities
- Centre for Information, Training and Placement (CITP)
- Student Chapters of Professional Bodies and Students' Associations

4.1 Centre for Information, Training and Placement (CITP)

AISSMS COE has an excellent and fully functional Centre for Information, Training and Placement (CITP) with adequate infrastructure comprising of Seminar Hall, Discussion rooms and Interview Rooms. The CITP is equipped with computers with internet facility. The CITP co-ordinator maintains a database of all the registered students with all relevant details and information of companies visiting the campus. A large number of companies visit the campus every year and recruit eligible students from the campus. The number of students placed through campus recruitment activity is increasing every year. The CITP at AISSMS COE is assisted by faculty coordinators by each department. Institute had the distinction of being visited by core companies specific to each domain as well as interdisciplinary area.

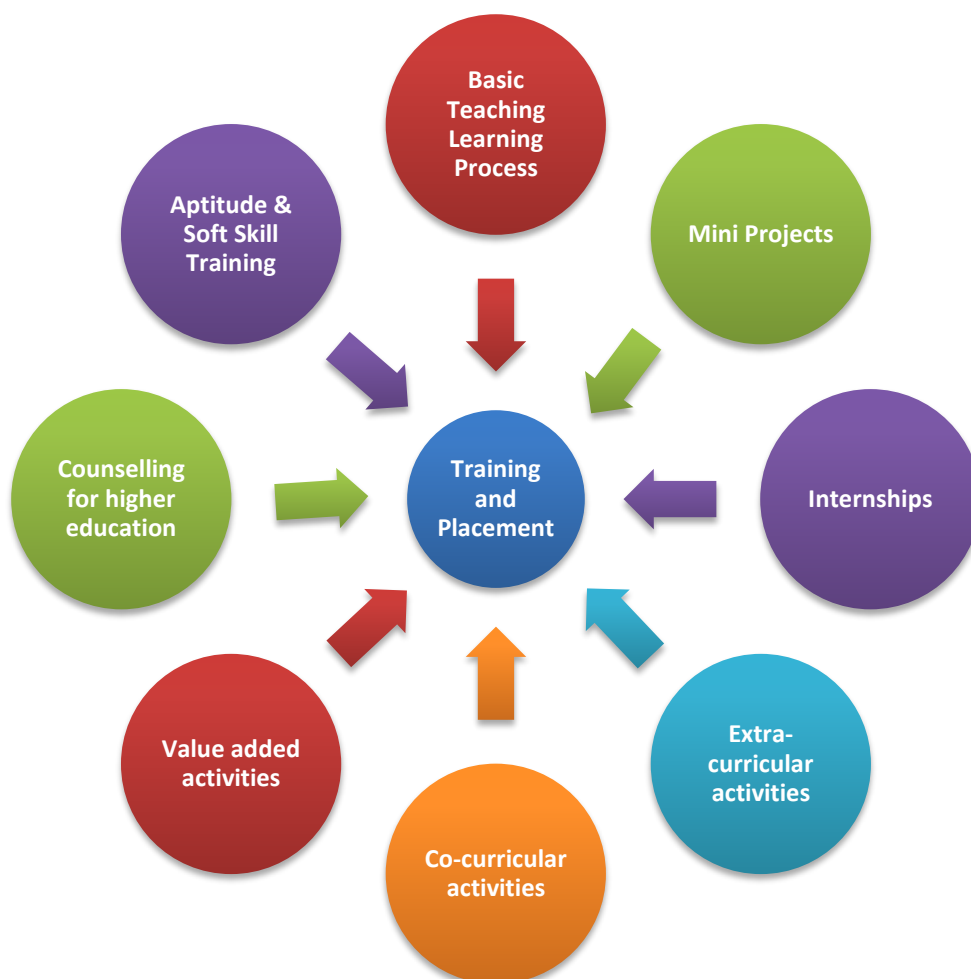


Figure 5 Centre for Training Information and Placement

As part of the training activity, institute has focused on training for Aptitude, Technical Tests, Group Discussions, Interviewing techniques, Psychometric tests, soft skills held through external agencies. These are imparted to all pre-final and final year students who register with CITP. The Placement Officer regularly contacts many IT-related and manufacturing organizations and forwards details of eligible students to the Industry as and when needed. Interactive sessions with the students of final year who have been selected by the companies are frequently arranged. In this session students narrate their experiences during the interview process. They give facts/necessary information that would add on students' preparation. Industry visits are arranged frequently as a part of career initiative.

4.2 Counselling for Higher Education

The various programmes were organized for providing information to students about opportunities for higher education such as Expert Lecture on “Education & Career Opportunity in foreign Universities”.

4.3 Industry Institute Interaction

CITP helps department to organize Internship to students. It provides an opportunity for the students to take up Internships at reputed industries and academic institutions in India. Institute has been interacting closely with industry through the CITP. Also Institute started one faculty-one industry drive under which various activities are being performed.

4.4 Co-curricular and Extra-Curricular Activities Institute

“AISSMS Engineering Today” - Every Year, the institute organizes technical competitions and symposia. These events provide students opportunity to prepare technical papers, Quiz, Model Making, Robo-race, Science exhibition. Students also involve as volunteers in the organization of such events.

AISSMSCOE Conducts a state-level cultural event "**Shivanjali**", "**Ashwamedh**" and "**Shahu Trophy**" every year. The Students of various colleges throughout the state participate in these events. AISSMS COE students actively participate and are winning prizes continuously in cultural and literary events organized by other colleges of the state. These events are held to promote overall personality development of the students.

Savitribai Phule Pune University
(Formerly University of Pune)



Circular No. 302 of 2022
Important Notification

Revised Dates of Commencement and Conclusion of terms of U.G. / P.G. Courses for the Academic Year 2022-23 for Affiliated Colleges / Recognised Institutes.

In reference to the earlier circular issued by the University bearing no. 173 dated 10.06.2022 the dates of commencement and conclusion of First Term and Second Term in the academic calendar for the academic year 2022-23, for the following courses are being revised as under.

| Sr No | Name of the Courses , Faculties & Year | 2022 - 2023 | | | |
|-------|--|--------------|------------|--------------|------------|
| | | First Term | | Second Term | |
| | | Commencement | Conclusion | Commencement | Conclusion |
| 1 | Science & Technology | | | | |
| | Science | 20/06/2022 | 30/11/2022 | 26/12/2022 | 04/05/2023 |
| | B.Engineering : II | 17/08/2022 | 10/12/2022 | 02/01/2023 | 29/04/2023 |
| | B.Engineering : III IV | 18/07/2022 | 30/11/2022 | 02/01/2023 | 29/04/2023 |
| | M.Engineering : II | 18/07/2022 | 12/11/2022 | 09/01/2023 | 06/05/2023 |
| | B.Architecture : II | 08/08/2022 | 04/12/2022 | 19/12/2022 | 04/05/2023 |
| | B.Architecture : III IV V | 20/06/2022 | 08/11/2022 | 30/12/2022 | 15/05/2023 |
| | M.Architecture:II | 19/09/2022 | 07/01/2023 | 23/01/2023 | 20/05/2023 |
| | B. Pharmacy: II III | 01/08/2022 | 10/12/2022 | 02/01/2023 | 10/05/2023 |
| | B. Pharmacy: IV | 15/07/2022 | 03/12/2022 | 02/01/2023 | 10/05/2023 |
| | M. Pharmacy : II | 01/08/2022 | 10/12/2022 | 26/12/2022 | 30/06/2023 |
| 2 | Commerce & Management | | | | |
| | Commerce | 20/06/2022 | 30/11/2022 | 26/12/2022 | 04/05/2023 |
| | MBA II (Including SIP project of 8 | 01/09/2022 | 30/01/2023 | 15/02/2023 | 26/05/2023 |
| | MCA II | 01/09/2022 | 16/12/2022 | 02/01/2023 | 15/04/2023 |
| | BHMCT II III IV | 01/09/2022 | 16/12/2022 | 02/01/2023 | 15/04/2023 |
| 3 | Humanities | | | | |
| | Arts | 20/06/2022 | 30/11/2022 | 26/12/2022 | 04/05/2023 |
| | Mental Moral and Social Sciences | | | | |
| | L.L.B. II | 31/10/2022 | 31/01/2023 | 06/02/2023 | 15/05/2023 |
| | L.L.B. III | 04/07/2022 | 12/12/2022 | 08/01/2023 | 15/05/2023 |
| | B.A. L.L.B. II | 31/10/2022 | 31/01/2023 | 06/02/2023 | 15/05/2023 |
| | D.A. L.L.B. III IV V | 04/07/2022 | 12/12/2022 | 08/01/2023 | 15/05/2023 |
| 4 | Inter disciplinary Studies | | | | |
| | Education : II | 15/09/2022 | 06/01/2023 | 17/01/2023 | 10/05/2023 |
| | Physical Education : II | 15/09/2022 | 06/01/2023 | 17/01/2023 | 10/05/2023 |
| | B.Lib & M.Lib | 15/07/2022 | 30/11/2022 | 02/01/2023 | 04/05/2023 |
| | Fine Arts & Performing Art | 20/06/2022 | 30/11/2022 | 26/12/2022 | 04/05/2023 |
| | Journalism PG | 15/07/2022 | 30/11/2022 | 02/01/2023 | 04/05/2023 |

NOTE :

1. The dates of commencement and conclusion of the University concerned Department / Affiliated Colleges / Recognised Institutes for the Academic year of all those courses whose admission was made under Common Entrance Test (CET) conducted by Government of Maharashtra / Savitribai Phule Pune University will be declared separately.

Ganeshkhind, Pune-07
Ref. No. PGS/4929
Date: 15/10/2022


Deputy Registrar
(P.G.Admission)

Copy to: for Information and necessary action

The Deans of Faculties.
The Registrar, Savitribai Phule Pune University, Pune.
The Director, Examinations & Evaluation, Savitribai Phule Pune University, Pune.
The Heads of all University Departments.
The Principals of all Affiliated Colleges.
The Directors of all Recognized Institutes.
The Heads of all the Administrative Sections of the University Office.
Asstt. Registrar, office of the Hon. Vice-Chancellor, Savitribai Phule Pune University
Asstt. Registrar, office of the Hon. Pro-Vice-Chancellor, Savitribai Phule Pune University



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



INSTITUTE ACADEMIC CALENDAR AY 2022-23 TERM I

| Year | Month | M | T | W | T | F | S | S | Activity |
|------|-----------|----|----|----|----|----|----|----|---|
| 2022 | JULY | | | | | 1 | 2 | 3 | |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | July 15: Display of Time Table, Roll Call List, ERP Updates |
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | July 18: Commencement of TE, BE and ME II |
| | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| | AUGUST | 1 | 2 | 3 | 4 | 5 | 6 | 7 | August 1-5: Prerequisite test |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | August 12: Display of SE Time Table, Roll List, ERP Updates |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | August 17: Commencement of SE classes |
| | | 22 | 23 | 24 | 25 | 26 | 27 | 28 | August 22-26: Class Test I (TE & BE) |
| | | 29 | 30 | 31 | | | | | |
| | SEPTEMBER | | | | 1 | 2 | 3 | 4 | September 01-02: Mid Term Review of Academics (TE & BE) |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | September 05-09: Mid Term Feedback (SE, TE, BE) |
| | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | September 14-16: Engineering Today |
| | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | September 19-23: Class Test I (SE) |
| | | 26 | 27 | 28 | 29 | 30 | | | September 26-30: Class Test II (TE, BE) |
| | OCTOBER | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | October 03-04: Mid Term Review of Academics (SE) |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | October 10-15: Innovation and Start-up week |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | October 17-21: End Term Feedback (TE & BE) |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | NOVEMBER | 31 | | | | | | | October 31-November 04: Class Test II (SE) |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | October 31-November 04 Class Test III (TE & BE) |
| | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | November 05: Conclusion of Teaching TE, BE, Nov.12: ME II |
| | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | November 21-25: End Term Feedback (SE) |
| | DECEMBER | 28 | 29 | 30 | | | | | November 28-30 : Class Test III (SE), |
| | | | | | 1 | 2 | 3 | 4 | December 1-2: Class Test III (SE) |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | December 10: Conclusion of Teaching of SE |
| | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| 2023 | JANUARY | 26 | 27 | 28 | 29 | 30 | 31 | | |
| | | | | | | | | 1 | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | January 02: Commencement of SE, TE and BE Term II |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | January 09: Commencement of ME II |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 26: Republic Day |
| | | 30 | 31 | | | | | | |

Commencement of FE and ME I will as per the Instructions from University

All the university examinations will be conducted as per university schedule

Defaulter Lists to be displayed forthneightly

HoD Meeting: Every Thursday, **Mentor meeting:** Every Tuesday, **GFM Meeting:** Every Friday

IQAC, ILC, ADC, CDC meetings to be conducted as per the instructions from concern authorities



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INSTITUTE ACADEMIC CALENDAR AY 2022-23 TERM II

| Year | Month | M | T | W | T | F | S | S | Activity |
|------|----------|----|----|----|----|----|----|----|--|
| 2023 | JANUARY | | | | | | | 1 | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | January 20: Display of Time Table, Roll Call List, ERP Updates |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 23: Commencement of term TE and BE |
| | | 30 | 31 | | | | | | January 30-31: Prerequisite Test |
| | FEBRUARY | | | 1 | 2 | 3 | 4 | 5 | February 1-3: Prerequisite Test |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | February 6: Commencement of term SE |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | February 15-17: Project review-III |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | February 20-21-22 Shivanjali |
| | | 27 | 28 | | | | | | February 27-28: Class Test I (TE & BE) |
| | MARCH | | | 1 | 2 | 3 | 4 | 5 | March 1-3: Class Test I (TE & BE) |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | March 10-12: ICORE 2023 |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | March 13-17: Class Test I (SE) |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | March 20-24 : Mid Term Feedback SE, TE, BE |
| | | 27 | 28 | 29 | 30 | 31 | | | March 30: Project Exhibition/ Project review- IV |
| | APRIL | | | | | | 1 | 2 | April 1: Commencement of term FE |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | April 3-7 : Class Test II (TE & BE) |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | April 17-21: Class Test II (SE) |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | MAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | May 1-4 : Class Test I (FE) |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | May 8-12: Class test III (TE & BE) |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | May 15-19: End Term Feedback (SE, TE & BE) May 20: Conclusion of Term (TE & BE) |
| | | 22 | 23 | 24 | 25 | 26 | 27 | 28 | May 22-26 : Class Test III (SE) |
| | | 29 | 30 | 31 | | | | | May 31: Conclusion of Term (SE) May 29-31: Mid Term Feedback (FE) |
| | JUNE | | | | 1 | 2 | 3 | 4 | June 1-3: Mid Term Feedback (FE) |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | June 5-8: Class Test II (FE) |
| | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| | | 26 | 27 | 28 | 29 | 30 | | | |
| | JULY | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | July 10-14: Class Test III (FE) |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | July 17-21: End Term Feedback (FE) July 22: Conclusion of Term (FE) |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | 31 | | | | | | | |

All the university examinations will be conducted as per university schedule

Defaulter Lists to be displayed fortnightly.

HoD Meeting: Every Thursday, **Mentor meeting:** Fortnightly, **GFM Meeting:** Every Friday

IQAC, ILC, ADC, CDC meetings to be conducted as per the instructions from authorities.


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COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Recognized by
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and recognized 2(f) and 12(B) by UGC (Id.No. PU / PN/ Engg. / 093 (1992)
Accredited by NAAC with 'A+' Grade



DEPARTMENT OF MECHANICAL ENGINEERING

Vision : To be recognized as a premier centre in the field of Mechanical Engineering Education

ACADEMIC CALENDER 2022-23 TERM I

| SN | Activity | Year/Class | Dates |
|----|--|--------------------------|--|
| 1 | Display of notices related to academic planning | Time Table | 14/07/2022 |
| | | Roll Call List | |
| | | Elective Confirmation | |
| | | Seminar List | |
| | | Project student List | |
| 2 | Commencement of Teaching | SE | 17/08/2022 |
| | | TE, BE | 18/07/2022 |
| | | ME I | As per SPPU schedule |
| 3 | Address to students | TE BE | 22/07/2022 |
| 4 | Class test I,II,III | TE & BE | I - 22/08/2022 - 26/08/2022 II - 26/09/2022 - 30/09/2022 III - 31/10/2022 - 04/11/2022 |
| 5 | Insem examination | SE TE & BE | As Per SPPU schedule |
| 6 | Endsem Examination | SE,TE & BE | As Per SPPU schedule |
| 7 | BE and ME Project Phase I Evaluation | BE & ME Students | 19/09/2022 - 21/09/2022 19/12/2022 - 21/12/2022 |
| 8 | Students Feedback | SE,TE & BE Mid Term | 05/09/2022 - 10/09/2022 |
| | | SE,TE & BE End Term Term | 02/10/2022 - 10/10/2022 |
| 9 | AISSMS Engineering Today 2022 | SE,TE & BE | 3rd week of September |
| 10 | Conclusion of Term | TE & BE | 05/11/2022 |
| | | SE & ME II | 10/12/2022, 12/11/2022 |
| | | ME I | As Per SPPU schedule |
| 11 | Oral/ Practical examination | SE, TE, BE & ME I, II | As Per SPPU schedule |
| 12 | Theory Exam | SE, TE, BE & ME I, II | As Per SPPU schedule |
| 13 | Commencement of Second Term of Academic Year 2022-23 | SE, TE & BE | 02/01/2023 |
| | | ME II | 09/01/2023, |

Academic Activity

| | |
|------------------------------|---|
| Unit Test : 03 | Alumini Meet |
| Assignment: 02, Activity: 01 | PAQIC Meeting |
| Expert Lectures | DAB Meeting |
| Industry Visit | GFM Meeting |
| Department Meeting | Mentor Meeting |
| Parents Meet | Student feedback on infrastructure facility |
| | |

Dr S V Chaitanya
Head of Department



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COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Calender AY 2022-2023 Term II (Mechanical)

Vision : To be recognized as a premier centre in the field of Mechanical Engineering Education

| Year | Month | M | T | W | T | F | S | S | Activity |
|------|----------|----|----|----|----|----|----|----|--|
| 2023 | JANUARY | | | | | | | 1 | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | SPPU Examinations of SE/TE/BE |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | January 20: Display of Time Table, Roll Call List, ERP Updates, Elective confirmation list |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 23: Commencement of term TE and BE |
| | FEBRUARY | 30 | 31 | | | | | | January 30-February 3: Prerequisite Test |
| | | | | 1 | 2 | 3 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | February 6: Commencement of Term SE |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | February 15-17: Project review-III |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | February 20-21-22 Shivanjali |
| | MARCH | 27 | 28 | | | | | | February 27- March 3: Class Test I (TE & BE) |
| | | | | 1 | 2 | 3 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | March 10-12: International Conference on Renewable Energy 2023 |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | March 13-17: Class Test I (SE) |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | March 20-24 : Mid Term Feedback SE, TE, BE |
| | APRIL | 27 | 28 | 29 | 30 | 31 | | | March 30: Project Exhibition/ Project review- IV |
| | | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | April 3-7 : Class Test II (TE & BE) |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | April 17-21: Class Test II (SE) |
| | MAY | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | May 8-12: Class test III (TE & BE) |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | May 15-19: End Term Feedback (SE, TE & BE) May 20: Conclusion of Term (TE & BE) |
| | | 22 | 23 | 24 | 25 | 26 | 27 | 28 | May 22-26 : Class Test III (SE) |
| | JUNE | 29 | 30 | 31 | | | | | May 31: Conclusion of Term (SE) |
| | | | | | 1 | 2 | 3 | 4 | |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | University Oral Practical examination, Theory Examination as per SPPU Schedule (SE, TE and BE) |
| | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| | | 26 | 27 | 28 | 29 | 30 | | | |
| | JULY | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |

Academic Activity

| | |
|---|---|
| GFM Meeting | Alumini Meet |
| Mentor Meeting | PAQIC Meeting |
| Expert Lectures | DAB Meeting |
| Industry Visit | Parents Meet |
| Department Meeting | Student feedback on infrastructure facility |
| University Insem and Ensem Examination as per SPPU Schedule (SE, TE and BE) | |

SV

Dr S V Chaitanya
HOD Mech Engg Dept



AISSMS

COLLEGE OF ENGINEERING

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and recognized 2(f) and 12(B) by UGC (Id.No. PU / PN/ Engg. / 093 (1992)
Accredited by NAAC with 'A+' Grade



DEPARTMENT OF MECHANICAL ENGINEERING (Sandwich)

Vision : To be recognized as a premier centre in the field of Mechanical Engineering Education

ACADEMIC CALENDER 2022-23 TERM I

| SN | Activity | Year/Class | Dates |
|----|--|----------------------------|--|
| 1 | Display of notices related to academic planning | Time Table | 14/07/2022 |
| | | Roll Call List | |
| | | Elective Confirmation List | |
| | | Seminar List | |
| | | Project student List | |
| 2 | Commencement of Teaching | SE | 17/08/2022 |
| | | TE | 18/07/2022 |
| | | ME I | As per SPPU schedule |
| 3 | Address to students | TE | 22/07/2022 |
| 4 | Class test I,II,III | TE | I - 22/08/2022 - 26/08/2022 II - 26/09/2022 - 30/09/2022 III - 31/10/2022 - 04/11/2022 |
| 5 | Insem Examination | SE TE | As Per SPPU schedule |
| 6 | Emdsem Examination | SE,TE | As Per SPPU schedule |
| 7 | Start of Industry Training | BE | 16/06/2022 |
| 8 | Industrial Training Mid term Evaluation | BE | 1st week of November |
| 9 | End of Industry training | BE | 15/12/2022 |
| 10 | ME Project Phase I Evaluation | ME | 19/12/2022 - 21/12/2022 |
| 11 | Students Feedback | SE,TE & BE Mid Term | 05/09/2022 - 10/09/2022 |
| | | SE,TE & BE End Term Term | 02/10/2022 - 10/10/2022 |
| 12 | AISSMS Engineering Today 2022 | SE,TE & BE | 3rd week of September |
| 13 | Conclusion of Term | TE | 05/11/2022 |
| | | SE & ME II | 10/12/2022, 12/11/2022 |
| | | ME I | As Per SPPU schedule |
| 14 | Oral/ Practical examination | SE, TE, BE & ME I, II | As Per SPPU schedule |
| 15 | Theory Exam | SE, TE, BE & ME I, II | As Per SPPU schedule |
| 16 | Commencement of Second Term of Academic Year 2022-23 | SE, TE & BE | 02/01/2023 |
| | | ME II | 09/01/2023, |

Academic Activity

| | |
|------------------------------|---|
| Unit Test : 03 | Alumini Meet |
| Assignment: 02, Activity: 01 | PAQIC Meeting |
| Expert Lectures | DAB Meeting |
| Industry Visit | GFM Meeting |
| Department Meeting | Mentor Meeting |
| Parents Meet | Student feedback on infrastructure facility |
| | |


Dr S V Chaitanya
Head of Department



AISSMS

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Recognized by
Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University
and recognized 2(f) and 12(B) by UGC (Id.No. PU / PN/ Engg. / 093 (1992)
Accredited by NAAC with 'A+' Grade



DEPARTMENT OF PRODUCTION ENGINEERING

ACADEMIC CALENDER 2022-23 TERM I

| SN | Activity | Year/Class | Dates |
|----|--|----------------------------|--|
| 1 | Display of notices related to academic planning | Time Table | 14/07/2022 |
| | | Roll Call List | |
| | | Elective Confirmation List | |
| | | IIT Student List | |
| | | Project student List | |
| 3 | Address to students | TE ,BE | 22/07/2022 |
| 4 | Commencement of Teaching | SE | 17/08/2022 |
| | | TE, BE | 18/07/2022 |
| 5 | Class test I,II,III Assignment No 1 & 2 | SE,TE , BE | I - 22/08/2022 - 26/08/2022 II - 26/09/2022 - 30/09/2022 III - 31/10/2022 - 04/01/2023 |
| 6 | Mid Term Test | SE, TE , BE | As Per SPPU schedule |
| 7 | In sem Exam | SE, TE , BE | As Per SPPU schedule |
| 8 | End Term Test | SE,TE , BE | As Per SPPU schedule |
| 9 | BE Mini Project Phase Evaluation | BE Students | 19/09/2022 - 21/09/2022 19/12/2022 - 21/12/2022 |
| 10 | Students Feedback | SE,TE , BE Mid Term | 05/09/2022 - 10/09/2022 |
| | | SE,TE ,BE End Term Term | 02/10/2022 - 10/10/2022 |
| 11 | AISSMS Engineering Today 2022 | SE,TE, BE | 3rd week of September |
| 12 | Conclusion of Term | TE , BE | 05/11/2022 |
| | | SE | 10/12/2022, 12/11/2022 |
| 13 | Oral/ Practical examination | SE, TE, BE | As Per SPPU schedule |
| 14 | Theory Exam | SE, TE, BE | As Per SPPU schedule |
| 15 | Commencement of Second Term of Academic Year 2022-23 | SE, TE & BE | 02/01/2023 |

Academic Activity

| | |
|----------------------------------|---|
| Unit Test : 03 Test | Alumini Meet |
| Assignment: 02, Activity: 01 | PAQIC Meeting |
| Expert Lectures | DAB Meeting |
| Industry Visit | GFM Meeting |
| Department Meeting -Every Friday | Mentor Meeting |
| Parents Meet | Student feedback on infrastructure facility |

Ms Y K Funde
Academic Coordinator

Dr N G Shekapure
Head of Department

Head of Department
Production Engineering
AISSMS COE, PUNE I



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COLLEGE OF ENGINEERING

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DEPARTMENT OF PRODUCTION ENGINEERING

ACADEMIC CALENDER 2022-23 TERM II

| SN | Activity | Year/Class | Dates |
|----|--|----------------------------|---|
| 1 | Display of notices related to academic planning | Time Table | 16/01/2023 |
| | | Roll Call List | |
| | | Elective Confirmation List | |
| | | IIT Student List | |
| | | Project student List | |
| 3 | Address to students | TE ,BE | 20/01/2023 |
| 4 | Commencement of Teaching | SE | 23/01/2023 |
| | | TE, BE | 18/07/2022 |
| 5 | Class test I,II,III Assignment No 1 & 2 | SE,TE , BE | As Per college schedule |
| 6 | Mid Term Test | SE, TE , BE | As Per SPPU schedule |
| 7 | In sem Exam | SE, TE , BE | As Per SPPU schedule |
| 8 | End Term Test | SE,TE , BE | As Per SPPU schedule |
| 9 | BE Project / IIT Evaluation | BE Students | 13/03/2022 - 17/03/2022 17/4/2022 - 21/04/2022 |
| 10 | Students Feedback | SE,TE , BE Mid Term | 6/3/2023 TO 10/3/2023 |
| | | SE,TE ,BE End Term Term | 8/5/2023 to 12/5/2023 |
| 11 | AISSMS Shivanjali 2023 | SE,TE, BE | 3rd week of march |
| 12 | Conclusion of Term | TE , BE | 20/05/2022 |
| | | SE | 10/12/2022, 12/11/2022 |
| 13 | Oral/ Practical examination | SE, TE, BE | As Per SPPU schedule |
| 14 | Theory Exam | SE, TE, BE | As Per SPPU schedule |
| 15 | Commencement of Second Term of Academic Year 2022-23 | SE, TE & BE | 31/05/2023 |

Academic Activity

| | |
|----------------------------------|---|
| Unit Test : 03 Test | Alumini Meet |
| Assignment: 02, Activity: 01 | PAQIC Meeting |
| Expert Lectures | DAB Meeting |
| Industry Visit | GFM Meeting |
| Department Meeting -Every Friday | Mentor Meeting |
| Parents Meet | Student feedback on infrastructure facility |

Ms Y K Funde
Academic Coordinator

Dr N G Shekapure
Head of Department

Head of Department
Production Engineering
AISSMS COE, PUNE 1



AISSMS
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
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Department of Chemical Engineering
Academic Calendar -2022-23 (Term I)

| SN | Details | Date |
|----|----------------------------------|--------------------------------|
| 1 | Commencement of TE, BE and ME II | July 18,2022 |
| 2 | Prerequisite Test | August 1-5,2022 |
| 3 | Commencement of SE | August 17,2022 |
| 4 | Class Test I (TE & BE) | August 22-26,2022 |
| 5 | Midterm Feedback | September 05-09,2022 |
| 6 | Engineering Today 2022 | September 14-16,2022 |
| 7 | Class Test I (SE) | September 19-23,2022 |
| 8 | Class Test II (TE & BE) | September 26-30,2022 |
| 9 | Workshop | October 04-08, 2022 |
| 10 | Innovation and Start up week | October 10-15, 2022 |
| 11 | End term Feedback | October 17-21, 2022 |
| 12 | Class Test II (SE,TE &BE) | October 31- November 04, 2022 |
| 13 | Conclusion of Teaching (TE, BE) | November 05, 2022 |
| 14 | Conclusion of Teaching (ME II) | November 12, 2022 |
| 15 | End term Feedback (SE) | November 21-25, 2022 |
| 16 | Class Test III (SE) | November 28- December 02, 2022 |
| 17 | Conclusion of Teaching (SE) | December 10, 2022 |
| 18 | Commencement of SE,TE &BE | January 02, 2023 |
| 19 | Commencement of ME II | January 09, 2023 |
| 20 | University Examination | As per the university Schedule |
| 21 | Display of Defaulter List | Fortnightly |
| 22 | Expert Lecture | During the Term |
| 23 | Industrial Visit | During the Term |


Academic Coordinator


Head
Deptt. of Chemical Engg
AISSMS, COE, Pune-1.



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DEPARTMENT OF CHEMICAL ENGINEERING

ACADEMIC CALENDAR AY 2022-23 TERM II

| Year | Month | M | T | W | T | F | S | S | Activity |
|------|----------|----|----|----|----|----|----|----|---|
| 2023 | JANUARY | | | | | | | 1 | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | January 20: Display of Time Table, Roll Call List, ERP Updates |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 23: Commencement of term TE and BE January 23-27: Uploading of Teaching Plan |
| | | 30 | 31 | | | | | | January 30-31: Prerequisite Test |
| | FEBRUARY | | | 1 | 2 | 3 | 4 | 5 | February 1-3: Prerequisite Test |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | February 6: Commencement of term SE |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | February 15-17: Project review-III, Expert Talk |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | February 20-21-22 Shivanjali |
| | | 27 | 28 | | | | | | February 27-28: Class Test I (TE & BE) |
| | | | | 1 | 2 | 3 | 4 | 5 | March 1-3: Class Test I (TE & BE) March 1-3: Review of Teaching |
| | MARCH | 6 | 7 | 8 | 9 | 10 | 11 | 12 | March 10-12: Industrial Visit |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | March 13-17: Class Test I (SE) |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | March 20-24 : Mid Term Feedback SE, TE, BE |
| | | 27 | 28 | 29 | 30 | 31 | | | March 30: Project Exhibition/ Project review- IV |
| | | | | | | | 1 | 2 | April 1: Social Event (Jagruti) |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | April 3-7 : Class Test II (TE & BE), Expert Talk |
| | APRIL | 10 | 11 | 12 | 13 | 14 | 15 | 16 | April 15 : Industrial Visit |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | April 17-21: Class Test II (SE) |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | April 28-29: Industrial Vist |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | May 8-12: Class test III (TE & BE), Review of Teaching |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | May 15-19: End Term Feedback (SE, TE & BE) May 20: Conclusion of Term (TE & BE) |
| | MAY | 22 | 23 | 24 | 25 | 26 | 27 | 28 | May 22-26 : Class Test III (SE) |
| | | 29 | 30 | 31 | | | | | May 31: Conclusion of Term (SE) May 29-31: Mid Term Feedback (FE) |

All the university examinations will be conducted as per university schedule

Defaulter Lists to be displayed fortnightly.

HoD Meeting: Every Thursday, **Mentor meeting:** Fortnightly, **GFM Meeting:** Every Friday

Department Academic Coordinator

[Signature]

Head

Deptt. of Chemical Engg
AISSMS, COE, Pune-1



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
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Vision: Nurture the talent in Civil Engineers to work as global leaders for development of society

DEPARTMENTAL ACADEMIC CALENDAR AY 2022-23 TERM II

| Year | Month | M | T | W | T | F | S | S | Central level Activities | Departmental Activities |
|------|----------|----|----|----|----|----|----|----|---|--|
| 2023 | JANUARY | | | | | | | 1 | | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | January 12: Preengineering Building Design (ME) January 13: Uploading of Teaching plan and Practical Plan on ERP |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | January 20: Display of Time Table, Roll Call List, ERP Updates | |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 23: Commencement of term TE and BE | |
| | | 30 | 31 | | | | | | January 30-31: Prerequisite Test | |
| 2023 | FEBRUARY | | | 1 | 2 | 3 | 4 | 5 | February 1-3: Prerequisite Test | February 3: PAC Committee Meeting February 7 to 13: NSS Camp February 10: Ideathon February 11: IGS students Chapter Industry Expert talk February 13: Formulation of ICI chapter February 13 to 17: Pre Internship Review |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | February 6: Commencement of term SE February 27 to 1 March Shivanjali | February 15-17: Project review-III February 15: Survey Project (surveying) February 22 to 23: Institute level Alumni meet February 23: Waste Processing Plants (SWM) February 23 to 24: Department level Alumni Iconnect national workshop sppu sponsored February 25: Waste Processing Plants (SWM) February 27-28: Class Test I (TE & BE) February 27: Site visit :I (DRCS) |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| | | 27 | 28 | | | | | | March 1-3: Class Test I (TE & BE) | |
| | | | | | | | | | | |
| 2023 | MARCH | | | 1 | 2 | 3 | 4 | 5 | March 10-12: ICORE 2023 | March 6: Site Visit :2 (DRCS) |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | March 13-17: Class Test I (SE) | March 15: Study of contracts and doc. (QSCT) March 16: Introduction of Green building by Dr. Aniket Nampalliwar (GSSC) March 23: Town planning aspect (ATP) |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | March 20-24 : Mid term review of academics and Mid Term Feedback SE, TE, BE | March 27: Result Analysis review for AY22-23, Term-I March 30: Project Exhibition/ Project review- IV |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| | | 27 | 28 | 29 | 30 | 31 | | | | |
| | | | | | | | | | | |
| 2023 | APRIL | | | | | | 1 | 2 | April 1: Commencement of term FE/ME | April 3: Ground water Depth analysis (RSGIS) April 3 to 7: Post internship Review April 4: Site visit (HPE) April 12: Expert Lecture (DHS) April 14: Harden concrete test (CT) April 14: Site visit to steel Plants (ME) |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | April 3-7 : Class Test II (TE & BE) | |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | April 17-21: Class Test II (SE) | April 24: Sewage Treatment Plant (WSE) April 24 to 26 Poster exhibition cum competition on failure case study of Hydraulic structure (DHS) April 25 : Viasit at RMC Plant (CT) April 26 : Industry meet April 27: Project cum exhibition competition April 28: Site visit LP-II- ME-I |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| | | | | | | | | | | |



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Nurture the talent in Civil Engineers to work as global leaders for development of society

DEPARTMENTAL ACADEMIC CALENDAR AY 2022-23 TERM II

| Month | M | T | W | T | F | S | S | Central level Activities | Depratmental Activities |
|-------|----|----|----|----|----|----|----|---|---|
| MAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | May 1-7: Class Test I (FE) | May 2: End term Teaching Review |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | May 8-12: Class test III (TE & BE) | |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | May 20: Conclusion of Term (TE & BE) | May 15-19: End Term Feedback (SE, TE & BE) |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 | May 22-26: Class Test III (SE) | May 15: Site visit on DAM/Spillway(DHS) |
| | 29 | 30 | 31 | | | | | May 31: Conclusion of Term (SE) May 29-31: Mid Term Feedback (FE) | May 16: Site visit on CD work (DHS) |
| JUNE | | | | 1 | 2 | 3 | 4 | June 1-4: Mid Term Feedback (FE) | |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | June 5-8: Class Test II (FE) | June 16: Site visit LP-II, ME-I |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | June 12: Result analysis review for AY22-23 (Term-II) |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | |
| JULY | 26 | 27 | 28 | 29 | 30 | | | | |
| | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | July 10-14: Class Test III (FE) | |
| | | | | | | 22 | 23 | July 17-21: End Term Feedback (FE) July 22: Conclusion of Term (FE/ME) | |
| | 17 | 18 | 19 | 20 | 21 | | | | |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| | 31 | | | | | | | | |

All the university examinations will be conducted as per university schedule

Defaulter Lists to be displayed fortnightly.

HoD Meeting: Every Thursday, Mentor meeting: Fortnightly, GFM Meeting: Every Friday

IQAC, ILC, ADC, CDC meetings to be conducted as per the instructions from authorities.

- 1 Provide quality education to develop competent Civil Engineers
- 2 Create awareness among students for sustainable development
- 3 Cultivate the leadership qualities for becoming successful entrepreneurs

Program Educational Objectives (PEOs):

- 1 To produce civil engineering's who will be fully aware of the impact of their work on society, both nationally and globally.
- 2 To achieve a high level of technical expertise to succeed in civil engineering practice and research.
- 3 To develop civil engineers who acquire professionalism, leadership and commitment to professional development through lifelong learning.

Mr. S. A. Chavan
ACADEMIC CALENDAR I/C

Dr. H. K. Kulkarni
HEAD OF CIVIL DEPARTMENT

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.



COMPUTER ENGINEERING DEPARTMENT

Vision:

- Contributing to the welfare of society through technical and quality education.

Mission:

- To produce Best Quality Computer Science Professionals by imparting quality training, hands on experience and value education.
- To strengthen links with Industry through partnerships and collaborative developmental works.
- To attain self-sustainability and overall development through Research, Consultancy and Development Activities.
- To extend technical expertise to other technical Institutions of the region and play a lead role in imparting technical education.

Academic Calendar:-2022-23

Term -2

| | | | | | |
|---|---|---|----|---|---|
| 1 | Commencement of Classes | SE-06/02/2023 TE/BE-23/01/2023 | 7 | BE Project Evaluation | 1 st Week of Feb 2023 (Phase I) 3 rd Week of March 2023 (Phase II) |
| 2 | Time Table ,Roll call Seminar list, Project list | SE-1/02/2023 TE/BE-20/01/2023 | | | |
| 3 | Prerequisite Test | SE 01/02/2023-03/02/2023 TE/BE 30/01/2023-31/01/2023 | 8 | Theory /Oral/Practical University Exams | As per the University Schedule |
| 4 | Course File Checking | In the month of April | 9 | Mentoring and counseling SE,TE,BE Students | once in fortnight |
| | | | 10 | GFM Meeting | Probably on every Friday (starting from commencement of teaching) |
| 5 | Class Unit Test | Unit test-1(TE/BE)- 06/03/2023-10/03/2023 Unit test-2(TE/BE)- 03/04/2023-07/04/2023 Unit test-3(TE/BE)- 08/05/2023-12/05/2023 Unit test-1(SE)- 13/03/2023-17/03/2023 Unit test-2(SE)- 17/04/2023-21/04/2023 Unit test-3(SE)- 22/06/2023-26/06/2023 | 11 | Defaulter List (SE,TE,BE) | Displayed fortnightly |
| | | | 12 | Completion of Term Work | 15/05/2023 to 19/05/2023 (SE,TE,BE) |
| 6 | Students Feedback | SE/TE/BE-Mid Term 20/03/2023-24/03/2023 SE/TE/BE-End Term 15/05/2023-19/05/2023 | 13 | Conclusion of Term | SE-31/05/2023 TE/BE-20/05/2023 |

1. Assignment Schedule: provide Assignment after Completion of two Units (3 Assignment)

| Unit 1 | Unit 2 | Unit 03 | Unit 04 | Unit 05 | Unit 06 |
|---------------|--------|---------------|---------|---------------|---------|
| Assignment 01 | | Assignment 02 | | Assignment 03 | |

The assignment must be returned after 10 days of submission.

2. Schedule for Departmental Activities:

| SN | Details | Date |
|----|----------------------------|---|
| 1 | HOD Meeting with Principal | Every Thursday |
| 2 | NAAC/NBA Meeting | Every Tuesday |
| 3 | Purchase Meeting | 2nd week of February |
| 4 | Principal Meeting | Two departmental meetings will be conducted in the month of Feb & March |
| 5 | Expert Lectures | Last week of Jan |
| 6 | Expert Lectures | First week of Feb |
| 7 | Alumni Meet | Last Week of Feb |
| 8 | I Cube Meet | Last Week of Feb |
| 9 | Industrial Visit | Second and Fourth week of March |
| 10 | Industrial Visit | Second and Fourth week of April |


Academic Calendar Coordinator


H.O.D.
Computer Engg Dept
AISSMS COE Pune



AISSMS

COLLEGE OF ENGINEERING
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Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University
and recognized 2(B) and 12(B) by UGC (Id No. PU/PUN/Engrg./093 (1982)
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COMPUTER ENGINEERING DEPARTMENT

Vision:

- Contributing to the welfare of society through technical and quality education.

Mission:

- To produce Best Quality Computer Science Professionals by imparting quality training, hands on experience and value education.
- To strengthen links with Industry through partnerships and collaborative developmental works.
- To attain self-sustainability and overall development through Research, Consultancy and Development Activities.
- To extend technical expertise to other technical Institutions of the region and play a lead role in imparting technical education.

Academic Calendar:-2022-23

Term -I

| | | | | | |
|---|--|---|----|--|---|
| 1 | Commencement of Classes | 17/08/2022(SE) 18/07/2022(TE,BE,ME) | 7 | BE Project Evaluation | 3 rd Week of August 2022 (Phase I) 3 rd Week of September 2022 (Phase II) 3 rd Week of October 2022 (Phase III) |
| 2 | Time Table ,Roll call Seminar list, Project list | 15/07/2022(TE,BE) 12/08/2022(SE) | 8 | Theory /Oral/Practical University Exams | As per the University Schedule |
| 3 | Course File Checking | In the month of October | 9 | Mentoring SE,TE,BE Students | Every Tuesday |
| 4 | Weekly Academic Report | After every 07 days (starting from commencement of teaching) | 10 | Conclusion of Term | 10/12/2022 (SE) 12/11/2022(TE,BE) |
| 5 | Defaulter List | To be displayed fortnightly | 11 | GFM Meeting | Every Friday |
| 6 | Students Feedback | Mid Term Feedback (SE,TE,BE) 2 nd week of September End Term Feedback (TE & BE) 2 nd week of October End Term Feedback (SE) 2 nd week of November | 12 | Commencement of second Term of Academic Year 2022-23 | (SE,TE,BE) 02/01/2023 Term-II (ME-II) 09/01/2022 |

1. Assignment Schedule: provide Assignment after Completion of three Units (2 Assignment)

| Unit 1 | Unit 2 | Unit 03 | Unit 04 | Unit 05 | Unit 06 |
|---------------|--------|---------|---------------|---------|---------|
| Assignment 01 | | | Assignment 02 | | |

The assignment must be returned after 10 days of submission.

2. Unit Test Schedule:

| Sr.No | Unit Test No | Date (SE) | Date (TE,BE) |
|-------|--------------|--------------------------|---------------------------|
| 1 | Unit Test 1 | 19/09/2022 to 23/09/2022 | 2022/8/2022 to 26/08/2022 |
| 2 | Unit Test 2 | 31/10/2022 to 04/11/2022 | 26/09/2022 to 30/09/2022 |
| 3 | Unit Test 3 | 28/11/2022 to 02/12/2022 | 31/10/2022 to 04/11/2022 |

3. Schedule for Departmental Activities:

| SN | Details | Date | SN | Details | Date |
|----|--------------------------------------|-----------------------------------|----|------------------|--------------------------------|
| 1 | HOD Meeting with Principal | Every Thursday | 6 | Purchase Meeting | 2 nd week of August |
| 2 | NAAC/NBA Meeting | Every Tuesday | 7 | Expert Lectures | Last week of Aug |
| 3 | PAQIC Meeting | Every Friday | 8 | Expert Lectures | First week of Sep |
| 4 | Principal Address to Faculty Members | 1 st week of September | 9 | Expert Lectures | First and Second week of Oct |
| 5 | Engineering Today | 3 rd week of September | 10 | Industrial Visit | Third and Fourth week of Oct |

Academic Calendar Coordinator
S S Jadhav

Head
Dr. S. V. Athawale

H.O.D.
Computer Engg Dept
AISSMS COE Pune



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COLLEGE OF ENGINEERING

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DEPARTMENT ACADEMIC CALENDAR AY 2022-23 TERM II

| Year | Month | M | T | W | T | F | S | S | Activity |
|------|----------|----|----|----|----|----|----|----|--|
| 2023 | JANUARY | | | | | | | 1 | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | January 20: Display of Time Table, Finalization of Elective |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 23: Commencement of term TE and BE |
| | | 30 | 31 | | | | | | January 30-31: Prerequisite Test |
| | FEBRUARY | | | 1 | 2 | 3 | 4 | 5 | February 1-3: Prerequisite Test |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | February 6: Commencement of term SE |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | February 15-17: Project review-III, ED cell activity |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | February 20-21-22 Shivanjali |
| | | 27 | 28 | | | | | | February 27-28: Class Test I (TE & BE), EV workshop for BE |
| | MARCH | | | 1 | 2 | 3 | 4 | 5 | March 1-3: Class Test I (TE & BE), NSS activity |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | March 10-12: ICORE 2023, March 6-Parents' Meet |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | March 13-17: Class Test I (SE) |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | March 20-24: Mid Term Feedback SE, TE, BE, Mid term academic review by PAQIC |
| | | 27 | 28 | 29 | 30 | 31 | | | March 30: Project Exhibition/ Project review- IV, Autocad workshop for TE |
| | APRIL | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | April 3-7: Class Test II (TE & BE), Workshop for SE on Multisim-circuit transients |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Python Workshop for SE |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | April 17-21: Class Test II (SE) |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Arduino Workshop for SE (ISTE) |
| | MAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | May 8-12: Class test III (TE & BE) |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | May 15-19: End Term Feedback (SE, TE & BE) |
| | | 22 | 23 | 24 | 25 | 26 | 27 | 28 | May 20: Conclusion of Term (TE & BE) |
| | | 29 | 30 | 31 | | | | | May 22-26: Class Test III (SE) |
| | JUNE | | | | 1 | 2 | 3 | 4 | |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| | | 26 | 27 | 28 | 29 | 30 | | | |
| | JULY | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | 31 | | | | | | | |

All the university examinations will be conducted as per university schedule

Defaulter Lists to be displayed fortnightly.

Department Meeting: Every Thursday, Mentor meeting: Fortnightly, GFM Meeting: Every Friday

HOD Department of Electrical Engineering
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All India Shri Shivaji Memorial Society's College of Engineering Pune-01
Department of Electrical Engineering
Department Academic Calendar 2022-23 (Term I)

| | | | | | |
|---|----------------------------|---|---|--------------------------|--|
| 1 | Commencement of Classes | 18/07/2022 (TE, BE, ME II) 22/08/2022 (SE) | 7 | Conclusion of Term | 5/11/2022 (TE, BE, ME II) 10/12/2022 (SE) |
| 2 | BE Project Evaluation | Twice in Semester I Tentatively 2 nd week of September and last week of October | 8 | Theory Exam | As per the University Schedule |
| 3 | Students Feedback | Twice in a semester | 9 | Defaulter List (if any) | After every 15 days |
| 4 | Course File Checking | September end | 1 | Principal Meeting | Once per semester |
| 5 | TE & BE In Sem SE Insem | 20-24 September 2022 | 0 | Department Meeting | Once a week |
| | | | | Mentor meeting | Once in 15 days |
| | | | | GFM Meeting | Once a week |

I. Internal Test Time Table

| SE (2019) | TE (2019) | BE (2019) | T1 | T2 | T3 |
|-----------|------------|--|---|---|--|
| PGT | ITM | PSOC | | | |
| EM-III | Elective I | ACS | For TE and BE test I is to be conducted between 22-26 August 2022 | For TE and BE test II is to be conducted between 26-30 September 2022 | For TE and BE test III is to be conducted between October 31-4 November 2022 |
| MS | MC-II | Elective I 1. PLC and SCDA 2. PQM | For SE test I is to be conducted between 19-23 September 2022 | For SE test II is to be conducted between October 31-4 November 2022 | For SE test III is to be conducted between 1-2 December 2022 |
| ADE | PE | Elective II 1. Electric and Hybrid Vehicle 2. HVDC and FACTS | | | |
| EMI | EIDCBM | | | | |

2. Schedule of Assignment:

| Name of Subjects | | | Assignment I | Assignment II |
|------------------|------------|--|--|--|
| SE (2019) | TE(2019) | BE (2019) | The assignment will be given on first 3 units mostly in the second week of September | The assignment will be given on last 3 units in the last week of October |
| PGT | ITM | PSOC | | |
| EM-III | Elective I | ACS | | |
| MS | MC-II | Elective I 1. PLC and SCDA 2. PQM | | |
| ADE | PE | Elective II 1. Electric and Hybrid Vehicle 2. HVDC and FACTS | | |
| EMI | EIDCBM | | | |

3. Schedule of Departmental Activities :

| SN | Details | Date | S N | Details | Date |
|----|----------------------------|----------------|--------|-----------------|---------------|
| 1 | PAQIC Meeting 1 | 26/08/2022 | 9 | FDP on NEP 2020 | November 2022 |
| 2 | Parents meet | 16/09/2022 | | | |
| 3 | Health Awareness Session | September 2022 | | | |
| 4 | Social Activity | September 2022 | | | |
| 5 | DAB Meeting | 14/10/2022 | | | |
| 6 | Entrepreneurship Activity | October 2022 | | | |
| 7 | PAQIC Meeting 2 | 2/11/2022 | | | |
| 8 | Industry Institute Meeting | 4/11/2022 | | | |


Head
 Department of Electrical Engineering
 AISSMS College of Engineering, Pune



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DEPARTMENT OF E&TC ENGINEERING

Academic Calender AY 2022-2023 Term II (E&TC)

Vision : Society and Welfare Through Competent Electronics and Communication Engineering Graduates

| Year | Month | M | T | W | T | F | S | S | Activity |
|------|----------|----|----|----|----|----|----|----|--|
| 2023 | JANUARY | | | | | | | 1 | |
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | January 20: Display of Time Table, Roll Call List, ERP Updates |
| | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | January 23: Commencement of term TE and BE |
| | | 30 | 31 | | | | | | January 30-31: Prerequisite Test |
| | FEBRUARY | | | 1 | 2 | 3 | 4 | 5 | February 1-3: Prerequisite Test |
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | February 6: Commencement of term SE |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | February 15-17: Project review-III |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | February 20-21-22 Shivanjali |
| | | 27 | 28 | | | | | | February 27-28: Class Test I (TE & BE) |
| | | | | 1 | 2 | 3 | 4 | 5 | March 1-3: Class Test I (TE & BE) |
| | MARCH | 6 | 7 | 8 | 9 | 10 | 11 | 12 | March 10-12: ICORE 2023 |
| | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | March 13-17: Class Test I (SE) |
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | March 20-24 : Mid Term Feedback SE, TE, BE |
| | | 27 | 28 | 29 | 30 | 31 | | | March 30: Project Exhibition/ Project review- IV |
| | | | | | | | 1 | 2 | April 1: Commencement of term FE |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | April 3-7 : Class Test II (TE & BE) |
| | APRIL | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | April 17-21: Class Test II (SE) |
| | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | May 1-4 : Class Test I (FE) |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | May 8-12: Class test III (TE & BE) |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | May 15-19: End Term Feedback (SE, TE & BE) |
| | MAY | 22 | 23 | 24 | 25 | 26 | 27 | 28 | May 20: Conclusion of Term (TE & BE) |
| | | 29 | 30 | 31 | | | | | May 22-26 : Class Test III (SE) |
| | | | | | | | | | May 29-31: Mid Term Feedback (FE) |
| | | | | 1 | 2 | 3 | 4 | | June 1-3: Mid Term Feedback (FE) |
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | June 5-8: Class Test II (FE) |
| | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| | JUNE | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| | | 26 | 27 | 28 | 29 | 30 | | | |
| | | | | | | | 1 | 2 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | July 10-14: Class Test III (FE) |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | July 22: Conclusion of Term (FE) |
| | JULY | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | 31 | | | | | | | |

Academic Activity

| | |
|--|--|
| GFM Meeting: Every Friday | Alumini Meet: 4th Week of Feb |
| Mentor Meeting: 2 & 4 Tuesday | PAQIC Meeting: Twice in Semester |
| Expert Lectures: April 2023 | Defaulter Students Meeting: 4th Week of Feb, March, April 2023 |
| Industry Visits & Workshops: March/April 2023 | Parents Meet: 4th week April |
| Department Meeting: Every Thursday | Student feedback on infrastructure facility: 4th Week of April |
| FDP: 3rd Week March | Project/PBL Exhibition: 1st & 2nd Week of May |
| Assignment Schedule: After 3rd & 6th Unit Completion | Display of Defaulter List: After Every Month |

Head

Department of Electronics & Telecommunications

[Signature]
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HOD E&TC Engg Dept



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DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

MASTER TIME TABLE

YEAR : 2022-2023

TERM-II

WEF:18/12/2022



| Day | Class | 8:15-9:15 am | 9:15-10:15 am | 10:15-10:30 am | 10:30-11:30 am | 11:30-12:30 pm | 12:30-1:00 pm | 1:00-2:00 pm | 2:00-3:00 pm | 3:00-4:00 pm |
|-----|-------|---|------------------|----------------|---|-------------------|---------------|--|------------------------|-----------------------------|
| Mon | SE A | A-GTE-247-MSC B-SUR-136-PRS C-SUR-136-CRY | | | GTE (RDN) (444) | SA (SAC) (444) | | SA-TUT-A-247 (SAC) | Project Based Learning | Project Based Learning |
| | SE B | PM (SDN) (441) | GTE (RDN) (441) | | D-CT-013-MSC E-SUR-136-UJJ | | | SA-TUT-D-136 (KDK) | Project Based Learning | Project Based Learning |
| | TE A | A-WWE-248-PRM B-DRCS-132-AAM C-RSGIS-229-SSB D-SWM-229-SPK | | | DRCS (PRS) (441) | WWE (DVW) (441) | | ATP/SWM (SPK/PRM) (441/247) | | |
| | TE B | RSGIS (VNP) (444) | WWE (DVW) (444) | | E-WWE-248-PRM F-DRCS-132-URA G-RSGIS-229-VNP H-SWM-229-KNK | | | ATP/SWM (KNK/PRM) (446/247) | | |
| | BE A | A-DHS-023-SSM B-QSCT-247-GCC C-HPE-248-VSC | | | QSCT (GCC) (450) | GSSC (CSM) (450) | | DHS (SSM) (450) | PROJECT WORK | |
| | BE B | DHS (PBN) (450) | GSSC (CSM) (450) | | E-DHS-023-PBN F-QSCT-247-CRY G-HPE-247-SSM H-HPE-013-SSB | | | QSCT (GCC) (444) | PROJECT WORK | |
| Tue | SE A | CT (MSC) (446) | PM (SDN) (446) | | SA (SAC) (441) | SUR (PRM) (441) | | A-CT-013-SDN B-SUR-136-PRS C-SUR-136-CRY | | MENTOR MEETING |
| | SE B | CT (UJJ) (444) | GTE (RDN) (444) | | D-SUR-136-UJJ E-CT-013-MSC F-GTE-247-CSM | | | SA (KDK) (450) | SA-TUT-E-446 (KDK) | MENTOR MEETING |
| | TE A | RSGIS (SSM) (441) | WWE (DVW) (441) | | A-DRCS-132-KDK B-WWE-248-PRM C-ATP-229-SPK D-DRCS-132-SRP | | | MENTOR MEETING | MENTOR MEETING | Honors Course ATP (2 hours) |
| | TE B | E-DRCS-132-SAC F-WWE-248-PRM G-ATP-229-KNK H-DRCS-132-KDK | | | WWE (DVW) (444) | RSGIS (VNP) (444) | | DRCS (SSB) 444 | MENTOR MEETING | Honors Course ATP (2 hours) |

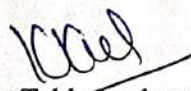
| | | | |
|-----|------|--|------------------------|
| Wed | BE A | B-DHS-023-SSM C- QSCT-247-AAM D- HPE-023-VSC | |
| | BE B | GSSC (CSM) (450) | DHS (PBN) (450) |
| | SE A | A-SUR-136-CRY B-CT-013-SDN C-GTE-247-RDN | |
| | SE B | CT (UJJ) (441) | SA (KDK) (441) |
| | TE A | A-ATP-229-SPK B- DRCS-132-AAM C-WWE-248- PRM D- RSGIS-229-SSB | |
| | TE B | | WWE (DVW) (444) |
| | BE A | | |
| | BE B | QSCT (GCC) (450) | HPE (VSC) (450) |
| | SE A | PM (SDN) (444) | CT (MSC) (444) |
| | SE B | CT (UJJ) 446 | GTE (RDN) (446) |
| Thu | TE A | ATP Honors Course | |
| | TE B | ATP Honors Course | |
| | BE A | QSCT (GCC) (450) | GSSC (CSM) (450) |
| | BE B | E-QSCT-023-CRY F-HPE-247-VSC H-DHS-247-SSM | |
| | SE A | SUR (PRM) (444) | CT (MSC) (444) |
| | | | |

| | |
|--|-------------------------|
| HPE (VSC) (446) | DHS (SSM) (446) |
| E-HPE-013-HRG F- DHS-023-PBN G-QSCT-247-CRY | |
| SA (SAC) (444) | SUR (PRM) (444) |
| D-GTE-247-RDN E-SUR-136-UJJ F-CT-013-MSC | |
| DRCS (PRS) (441) | RSGIS (SSM) (441) |
| E-RSGIS-229-VNP F- DRCS-132-URA G-WWE-248-DVW H-DRCS-132-KDK | |
| GSSC (CSM) (450) | HPE (VSC) (450) |
| G-DHS-023-SSM H-QSCT-247-CRY | |
| A-SUR-136-CRY B-GTE-247-CSM C-CT-013-MSC | |
| PM (SDN) (450) | SA (KDK) (450) |
| DRCS (PRS) (441) | WWE (DVW) (441) |
| E- DRCS-132-SAC F- ATP-229- KNK G-DRCS-132-KDK H- WWE-248-PRM | |
| A-QSCT-023-AAM B-HPE-229-SSB D-DHS-248-SSM | |
| HPE (VSC) (450) | QSCT (GCC) (450) |
| GTE (RDN) (441) | PM (SDN) (441) |

| | | |
|--|------------------------------|-------------------|
| PROJECT WORK | | MENTOR MEETING |
| PROJECT WORK | | MENTOR MEETING |
| GTE (RDN) (444) | SA-TUT-B- 136 (SAC) | GFM Meeting |
| SUR (CRY) (446) | SA-TUT-F- 248 (KDK) | GFM Meeting |
| ATP/SWM (SPK/PRM) (441/444) | | GFM Meeting |
| ATP/SWM (KNK/PRM) (446/444) | | GFM Meeting |
| A-HPE-023-VSC C- DHS-229-SSM D- QSCT-247-GCC | | GFM Meeting |
| | | GFM Meeting |
| Project Based Learning | | |
| SUR (CRY) (441) | F-SUR-136-PRS | |
| A-DRCS-132-KDK B-RSGIS-229-SSB C-DRCS-132-MVW D-WWE-248-DVW | | |
| DRCS (SSB) 444 | RSGIS (VNP) (444) | |
| HPE (VSC) (446) | PROJECT WORK | |
| GSSC (CSM) (450) | PROJECT WORK | |
| SA-TUT-C- 446 (SAC) | Project Based Learning | |

Fri

| | | | | | | | |
|------|---|------------------------|---|-----------------------------------|---|--|--|
| SE B | SUR (CRY) (441) | PM (SDN) (441) | D-SUR-136-UJJ E-GTE-247-CSM F-SUR-136-PRS | | Project Based Learning | | |
| TE A | | | RSGIS (SSM) (450) | ATP/SWM (SPK/PRM) (450/444) | A-RSGIS-229-SSB B-ATP-229- SPK C-DRCS-132-MVW D-DRCS-132-SRP | | |
| TE B | E-ATP-229-KNK F-RSGIS-024-SSB G-DRCS-132-KDK H-RSGIS-229-VNP | | DRCS (SSB) (444) | ATP/SWM (KNK/PRM) (446/444) | | | |
| BE A | DHS (SSM) (446) | QSCT (GCC) (446) | PROJECT WORK | | PROJECT WORK | | |
| BE B | DHS (PBN) (450) | HPE (VSC) (450) | PROJECT WORK | | PROJECT WORK | | |


Time Table In charge


HOD

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DEPARTMENT OF CIVIL ENGINEERING

YEAR: 2022-2023 TERM-I

W.E.F. 25/07/2022

| Day | Class | 8:15-9:15 am | 9:15-10:15 am | 10:15-10:30 am | 10:30-11:30 am | 11:30-12:30 pm | 12:30-1:00 pm | 1:00-2:00 pm | 2:00-3:00 pm |
|-----|-------|--|------------------------|----------------|--|--|---------------|---|-------------------------------|
| Mon | SE A | A-MOS-013-AAM B-FM-024-RSM C-BTAP-132-V | | | BTAP (CSM) (444) | EG (SGJ) (444) | | FM (PBN) (446) | MOS (SAC) (446) |
| | SE B | EG (SGJ) (441) | FM (PBN) (441) | | D-MOS-013-MSC E-FM-024-PBN F-BTAP-132-CSM | | | MOS (SRP) (450) | A-M III- TUT- 450- KBK |
| | TE A | A-WSE-248-PRM B-DSS-132-SRP C-HWRE-024-VNP D-CM-229-SDN | | | DSS (URA) (441) | EEFM (VNP) (441) | | WSE (DVW) (441) | |
| | TE B | HWRE (UJJ) (444) | WSE (DVW) (444) | | E-WSE-248-DVW F-DSS-132-KDK G-HWRE-024-UJJ H-CM-229-SDN | | | CM (SDN) (444) | EEFM (VNP) (444) |
| | BE A | ELE-III (OR/CE) (SPK/VSC) (450/446) | FE (RDN) (450) | | TE (GCC) (450) | ELE-IV (SACM/APC) (KNK/PRM) (450/446) | | A1-OR-248-SPK A3-CE-229-VSC | |
| | BE B | ELE-III (OR/CE) (SPK/VSC) (450/446) | TE (GCC) (446) | | FE (RDN) (446) | ELE-IV (SACM/APC) (KNK/PRM) (450/446) | | E-TE-023-RDN F- PCE-229-SSM | |
| Tue | SE A | MOS (SAC) (446) | BTAP (CSM) (446) | | FM (PBN) (441) | M-III (KBK) (441) | | A-EG-247-SGJ B-MOS-013-SAC C-BTAP-132-V | |
| | SE B | BTAP (MSC) (450) | EG (SGJ) (450) | | D-EG-247-SGJ E-MOS-013-RSM F- BTAP-132-CSM | | | FM (PBN) (450) | B-M III- TUT- KBK (450) |
| | TE A | WSE (DVW) (441) | EEFM (VNP) (441) | | A-DSS-132-SAC B-WSE-248-PRM C-CM-229-KNK D-DSS-132-UJJ | | | HWRE (VSC) (441) | |
| | TE B | HWRE (UJJ) (444) | CM (SDN) (444) | | WSE (DVW) (444) | DSS (SRP) 444 | | E-DSS-132-UJJ F-WSE-248-DVW G-CM-229-SDN H-DSS-132-KDK | |
| | BE A | A-TE-023-RDN B- PCE-229-SSM | | | FE (RDN) (446) | PCE (SSM) (446) | | C1-SACM-247-KNK C3-APC-247-PRM | |


| | | | |
|-----|------|--|-------------------------|
| Wed | BE B | B1-OR-248-SPK B4-CE-247-VSC | |
| | SE A | A-BTAP-132-MS B-MOS-013-SAC C-EG-247-SGJ | |
| | SE B | FM (PBN) (441) | M-III (KBK) (441) |
| | TE A | A-CM-247-CSM B-DSS-132-SRP C-WSE-248-PRM D-HWRE-024-VNP | |
| | TE B | WSE (DVW) (444) | CM (SDN) (444) |
| | BE A | A2-OR-247-SPK A4-CE-229-VSC | |
| Thu | BE B | E-PCE-229-SSM H-TE-023-GCC | |
| | SE A | C-M III-TUT- (KBK) (450) | BTAP (CSM) (450) |
| | SE B | EG (SGJ) (446) | BTAP (MSC) (446) |
| | TE A | WSE (DVW) (441) | CM (SDN) (441) |
| | TE B | HWRE (UJJ) (444) | DSS (SRP) (444) |
| | BE A | B-TE-023-RDN D-PCE-229-SSM | |
| | BE B | D4-APC-229-PRM D2-SACM-248-KNK | |
| | SE A | A-BTAP-132-MS B-EG-247-SGJ C-MOS-013-SAC | |
| | SE B | C-M III-TUT (KBK) (441) | M-III (KBK) (441) |

| | |
|---|--|
| TE (GCC) (450) | FE (RDN) (450) |
| M-III (KBK) (444) | FM (PBN) (444) |
| D-BTAP-132- CSM E-MOS-013-RSM F-EG-247-SGJ | |
| DSS (URA) (441) | HWRE (VSC) (441) |
| E-HWRE-024-GCC F-DSS-132-KDK G-WSE-248-DVW H-DSS-132-KDK | |
| ELE-III (OR/CE) (SPK/VSC) (450/446) | ELE-IV (SACM/APC) (KNK/PRM) (450/446) |
| ELE-III (OR/CE) (SPK/VSC) (450/446) | ELE-IV (SACM/APC) (KNK/PRM) (450/446) |
| A-FM-024-RSM B-BTAP-132-MS C-MOS-013-SAC | |
| MOS (SRP) (444) | M-III (KBK) (444) |
| EEFM (VNP) (441) | DSS (URA) (441) |
| E-DSS-132-UJJ F-CM-229-SDN G-DSS-132-KDK H-HWRE-024-VSC | |
| TE (GCC) (446) | ELE-IV (SACM/APC) (KNK/PRM) (450/446) |
| PCE (SSM) (450) | ELE-IV (SACM/APC) (KNK/PRM) (450/446) |
| M-III (KBK) 444 | MOS (SAC) (444) |
| D-MOS-013-MS E-BTAP-132-CSM MOS-013-RSM | |

| | |
|---|------------------------------|
| F-TE-023-GCC G-PCE-229-SSM | |
| EG (SGJ) 450 | A-M III- TUT- 450- KBK |
| MOS (SRP) 446 | BTAP (MSC) 446 |
| CM (SDN) (441) | |
| EEFM (VNP) (444) | |
| A-PCE-229-SSM C-TE-023-RDN | |
| D1-SACM-247-KNK D3-APC-229-PRM | |
| EG (SGJ) (444) | B-M III- TUT- 444- KBK |
| D-FM-024-PBN E-BTAP-136-CSM F-MOS-013-RSM | |
| A-DSS-132-SAC B-HWRE-024-VNP C-DSS-132-SRP D-WSE-248-DVW | |
| | |
| C2-SACM-247-KNK C4-APC-229-PRM | |
| G-TE-023-GCC H-PCE-229-SSM | |
| A-MOS-013-AAM B-BTAP-136-MS C-FM-024-RSM | |
| D-BTAP-132-CSM E-EG-247-SGJ F-FM-024-V | |

| | | | | | | | |
|-----|------|--|----------------------|------------------------|--|---|--|
| Fri | TE A | A-HWRE-024-VNP B-CM-229-KNK C-DSS-132-SRP D-DSS-132-UJJ | | HWRE (VSC) (441) | CM (SDN) 441 | | |
| | TE B | | | EEFM (VNP) (444) | DSS (SRP) (444) | E- CM-247-SDN F-HWRE-024-GCC G-DSS-132-KDK H-WSE-248-DVW | |
| | BE A | | FE (RDN) (446) | TE (GCC) (446) | ELE-III (OR/CE) (SPK/VSC) (450/446) | C-PCE-229-SSM D-TE-023-RDN | |
| | BE B | | TE (GCC) (450) | FE (RDN) (450) | ELE-III (OR/CE) (SPK/VSC) (450/446) | B2-OR-450-SPK B3-OR-450-SPK | |


TIME TABLE I/C


HEAD OF THE DEPARTMENT
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Accredited by NAAC with "A+" Grade



DEPARTMENT OF CHEMICAL ENGINEERING

MASTER TIME TABLE

ACADEMIC YEAR 2022-23

TERM -II

WEEK 20/02/2023

| ACADEMIC YEAR 2022-23 | | | | TERM -II | | WEEK 20/02/2023 | | | | |
|-----------------------|-------|--|-----------------------|-------------|--|-----------------------|-------------|---|-----------------------|---|
| DAY/TIME | CLASS | 8.15-9.15 | 9.15-10.15 | 10.15-10.30 | 10.30-11.30 | 11.30-12.30 | 12.30-13.00 | 13.00-14.00 | 14.00-15.00 | 15.00-16.00 |
| MON | SE | A- IC-II(PDB)(Chem Lab) B- HT (PST)(HT Lab) C- POD (SBG)(329) | | R | IC-II DVN 333 | CT-I ASJ 333 | R | POD SBG 333 | HT PST 333 | |
| | TE | TP MB 333 | ELEC-II KBG 333 | | A- CRE-I (AVM)(CRE Lab) B- MT-II(KAD)(322) C-TP* (MB) (319) D- MT-II (KBG)(323) | | | MT-II HLK 324 | CRE-I AVM 324 | |
| | BE | PROJECT | | | ELEC-V PMW 324 | PECPD MYN 324 | | A- PMS(KAD)(329) B- PECPD(MYN)(329) | | |
| TUE | SE | MO KNB 333 | IC-II DVN 333 | E | A- HT (PST)(HT Lab) B- IC-II (DVN)(Chem Lab) C- MO (KNB)(322) | | E | A- IC-II(PDB)(Chem Lab) B- POD (SBG)(329) C- HT (PST)(HT Lab) | | |
| | TE | A- MT-II(HLK)(322) B- TP*(MB) (319) C- CRE-I (KBG)(319) D- CRE-I (AVM)(CRE Lab) | | | ELEC-II KBG 333 | CRE-I AVM 333 | | MT-II HLK 324 | TP MB 324 | A- INT (HLK)(329) B- INT (MB)(319) C- INT (PMW)(323) D-INT(SBG)(329) |
| | BE | ELEC-VI KAD 324 | PECPD MYN 324 | | ELEC-V PMW 324 | PMS PND 324 | | B- PMS(KAD)(329) C- PECPD(MYN)(329) | | |
| WED | SE | CT-I ASJ 333 | POD SBG 333 | C | A- PBL (ASJ)(329) B- IC-II (DVN)(302) C- PBL (PST)(329) | | C | HT PST 333 | MO KNB 333 | |
| | TE | A- TP*(MB) (319) C- CRE-I (KBG)(CRE Lab) D- CRE-I (AVM)(CRE Lab) | | | TP MB 333 | ELEC-II KBG 333 | | A- MT-II(HLK)(322) B-CRE-I(AVM)(CRE Lab) | | |
| | BE | ELEC-VI KAD 324 | PECPD MYN 324 | | PMS PND 324 | ELEC-V PMW 324 | | D- PMS(PND)(329) A- PECPD(PMW)(329) | | |
| THUR | SE | HT PST 333 | POD SBG 333 | E | CT-I ASJ 333 | MO KNB 333 | E | A- MO (KNB)(322) B- PBL (PMW)(329) C- PBL (PST)(329) | | |
| | TE | CRE-I AVM 324 | MT-II HLK 324 | | B- CRE-I (AVM)(CRE Lab) C- MT-II (HLK)(323) D- TP* (MB)(319) | | | C- MT-II (HLK)(323) D- MT-II (KBG)(323) | | |
| | BE | PROJECT | | | C- PMS(PND)(328) D- PECPD(PMW)(329) | | | PMS PND 324 | ELEC-VI KAD 324 | |
| FRI | SE | | IC-II DVN 333 | SS | A- PBL (ASJ)(329) B- PBL (PMW)(329) C- IC-II (PDB)(Chem Lab) | | SS | A- POD (SBG)(329) B- MO (KNB)(322) C- IC-II (PDB)(Chem Lab) | | |
| | TE | A- CRE-I (AVM)(CRE Lab) B- MT-II(KAD)(322) | | | | | | | | |
| | BE | PROJECT | | | PROJECT | | | PROJECT | | |

DEPARTMENT TIME-TABLE INCHARGE
Chemical Engg Dept

Head
Dept of Chemical Engg
AISSMS, COE, Pune-4

CENTRAL TIME-TABLE INCHARGE
AISSMS COE

PRINCIPAL
AISSMSCOE

**AISSMS**

COLLEGE OF ENGINEERING

आयन सफलता विद्यालय
(Accredited by NAAC with grade A+)DEPARTMENT OF COMPUTER ENGINEERING
MASTER TIMETABLE DIV A
A.Y. 2022-23 Term-II

w.e.f 23/01/2023

| w.e.f 23/01/2023 | | | | | | | | | |
|------------------|------------|-----------------|---------------|-----------------------|--|---------------|-----------------------|-----------------------------------|-----------------|
| DAY | Class/Time | 8.15-9.15 | 09:15-10:15 | 10:15-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1.00 | 1:00-2.00 | 2.00-3.00 |
| MON | SE I | M-II-KBK-345 | DSA-VVW-345 | B R E A K | A-DSAL-VVW-115 B-PBL-MMP-102 C-DSAL-AMJ-116 | | B R E A K | SE-MAP-345 | PPL-ASD-345 |
| | TE I | CC-NRT-440 | DSBDA-SVA-440 | | A-LP-2-NRT-121 B-DSBDAL-VSG-121 C-WTL-SFS-120 D-DSBDL-VSG-119 | | | AI-DPG-440 | WT-SFS-440 |
| | BE I | PROJECT | | | NLP-BVK-420 | EL-VI-DMU-420 | | A-LP-V-SRN-115 B-LP-VI-DMU-101 | |
| TUE | SE I | M-II-KBK-345 | MP-MMP-345 | | A-MPL-MMP-119 B-DSAL-VVW-115 C-PBL-MMS-102 | | | PPL-ASD-345 | DSA-VVW-345 |
| | TE I | AI-DPG-440 | DSBDA-SVA-440 | | A-LP-2-SSJ-116 B-LP-2-NRT-121 C-DSBDL-VSG-121 D-WTL-SFS-120 | | | CC-NRT-440 | WT-SFS-440 |
| | BE I | | NLP-BVK-420 | | DL-SRN-420 | EL-VI-DMU-420 | | A-LP-VI-DMU-101 B-LP-V-VSG-115 | |
| WED | SE I | MP-MMP-345 | PPL-ASD-345 | | A-PBL-MMP-102 B-PBL-SGD-101 C-DSAL-VVW-116 | | | SE-MAP-345 | DSA-VVW-345 |
| | TE I | | WT-SFS-440 | | A-DSBDL-BVK-115 B-LP-2-SSJ-116 C-LP-2-NRT-121 D-DSBDA-VSG-119 | | | DSBDA-SVA-440 | CC-NRT-440 |
| | BE I | | HPC-VSG-420 | | EL-VI-DMU-420 | DL-SRN-420 | | C-LP-V-VSG-115 D-LP-VI-DMU-101 | |
| THU | SE I | | M-II-KBK-345 | | A-DSAL-VVW-116 B-MPL-MMP-119 C-PBL-MMS-102 | | | MP-MMP-345 | A-M-III-KBK-345 |
| | TE I | WT-SFS-440 | CC-NRT-440 | | A-WTL-SFS-120 B-DSBDL-VSG-121 C-LP-2-SSJ-116 D-LP-2-NRT-121 | | | AI-DPG-440 | |
| | BE I | | HPC-VSG-420 | | DL-SRN-420 | NLP-BVK-420 | | C-LP-VI-DMU-101 D-LP-V-SRN-115 | |
| FRI | SE I | B-M-III-KBK-345 | SE-MAP-345 | | A-PBL-NR-101 B-DSAL-VVW-116 C-MPL-MMP-119 | | | COC-MMP-345 | C-M-III-KBK-345 |
| | TE I | | | | A-DSBDL-VVN-102 B-WTL-SFS-120 D-LP-2-SSJ-116 C-DSBDL-VSG-121 | | | AI-DPG-440 | DSBDA-SVA-440 |
| | BE I | | HPC-VSG-420 | | PROJECT | | | PROJECT | |

Time Table In-charge
(Mrs.M. M. Swami)H.O.D.
(Dr. S V Athawale)H.O.D.
Computer Engg Dept
AISSMS COE Pune



DEPARTMENT OF COMPUTER ENGINEERING
MASTER TIMETABLE DIV B
A.Y. 2022-23 Term-II

w.e.f 23/01/2023

| DAY | Class/Time | 8.15-9.15 | 09:15-10:15 | 10:15-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1.00 | 1.00-2.00 | 2.00-3.00 |
|-----|------------|---|---------------|-------------|---------------|---------------|------------|--|-----------------|
| MON | SE II | A-DSAL-SGD-121 B-PBL-SRN-102 C-PBL-SSJ-101 | | | SE-SSJ-340 | DSL-SGD-340 | | A-PBL-VVN-102 B-M-III-TUT-340 | |
| | TE II | | DSBDA-AJK-340 | | SSK-CC-345 | AI-NR-345 | | A-LP-2-NR-119 B-LP2-SSK-121 C-WTL-AMJ-116 D-DSBDL-AJK-121 | |
| | BE II | A-LP-V-VVN-116 B-LP-VI-SJP-121 | | | DL-VVN-440 | EL-VI-SJP-440 | | NLP-BVK-420 | |
| TUE | SE II | B-DSAL-SGD-121 C-PBL-NRT-102 | | | M-III-KBK-340 | PPL-AMJ-340 | | MP-MMS-340 | C-M-III-TUT-340 |
| | TE II | WT-AMJ-340 | SSK-CC-340 | | DSBDA-AJK-345 | AI-NR-345 | | A-LP2-SSK-121 B-WTL-AMJ-116 C-DSBDL-AJK-121 D-DSBDA-BVK-119 | |
| | BE II | A-LP-VI-SJP-121 B-LP-V-VVN-115 | | | NLP-BVK-440 | HPC-SSK-440 | | DL-VVN-440 | EL-VI-SJP-440 |
| WED | SE II | A-PBL-SSJ-101 B-MPL-MMS-119 C-DSAL-SGD-121 | | | M-III-KBK-340 | MP-MMS-340 | | SE-SSJ-340 | A-M-III-TUT-340 |
| | TE II | | DSBDA-AJK-340 | | AI-NR-345 | WT-AMJ-345 | | A-WTL-AMJ-116 B-DSBDA-BVK-121 C-LP-2-NR-119 D-LP2-SSK-121 | |
| | BE II | C-LP-V-VVN-115 D-LP-VI-SJP-121 | | | HPC-SSK-440 | NLP-BVK-420 | | PROJECT | |
| THR | SE II | A-DSAL-SGD-121 B-PBL-ASD-115 C-MPL-MMS-119 | | | DSL-SGD-340 | PPL-AMJ-340 | | SE-SSJ-340 | MMS-COC-340 |
| | TE II | | AI-NR-345 | | WT-AMJ-345 | SSK-CC-345 | | A-DSBDA-BVK-116 B-DSBDL-ASD-121 C-LP2-SSK-121 D-LP-2-NR-119 | |
| | BE II | C-LP-VI-SJP-121 D-LP-V-VVN-116 | | | PROJECT | | | | |
| FRI | SE II | A-MPL-MMS-119 B-DSAL-SGD-121 C-DSAL-BVK-121 | | | M-III-KBK-340 | DSL-SGD-340 | | PPL-AMJ-340 | MP-MMS-340 |
| | TE II | | SSK-CC-340 | | DSBDA-AJK-345 | WT-AMJ-345 | | A-DSBDL-ASD-121 B-LP-2-NR-119 C-DSBDA-BVK-121 D-WTL-AMJ-116 | |
| | BE II | | DL-VVN-440 | | EL-VI-SJP-440 | HPC-SSK-440 | | PROJECT | |

Time Table In-charge
(Mrs. N.A.Rai)

N.A.Rai

S.V. Athawale
H.O.D.
(Dr. S V Athawale)

H.O.D.
Computer Engg Dept
AISSMS COE Pune



**DEPARTMENT OF COMPUTER ENGINEERING
 CLASS TIMETABLE DIVISION A (TERM-I) A.Y. 2022-23**

| DAY | Class/ Time | 8:15-9:15 | 09:15-10:15 | 10:15-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1:00 | W.E.F | 7/27/2022 |
|-----|----------------|----------------|--------------|-------------|--|----------------|------------|--|-------------|
| MON | SE-I | DM-HR-345 | CG-SFS-345 | | A-DSL-NR-120 B-OCGL-ASD-115 C-DELD-MMS-102 | | | FDS-SGD-345 | OOP-ASD-345 |
| | TE-I | SPOS-ASB-440 | DBMS-MAP-440 | | A-LP-I-PWG-121 B-DBMSL-VVN-121 C-CHL-SVA-119 D-DBMSL-AMJ-116 | | | CH-SVA-440 | SPM-MAP-440 |
| | BE-I | ML-SRN-420 | BCT-VVN-420 | | DAA-NRT-420 | STQA-SSJ-420 | | A-LP-III-NRT-227 C-LP-IV-AJK-101 | |
| TUE | SE-I | OOP-ASD-345 | DM-HR-345 | | A-DELD-MMS-102 B-DSL-VVW-121 C-DSL-NR-120 | | | CG-SFS-345 | FDS-SGD-345 |
| | TE-I | SPOS-ASB-440 | TOC-VVW-440 | | A-DBMSL-VVN-227 B-CHL-SVA-119 C-DBMSL-AMJ-116 D-LP-I-ASB-121 | | | SPM-MAP-440 | CH-SVA-440 |
| | BE-I | OOP-IV-AJK-101 | BCT-VVN-420 | | DAA-NRT-420 | ML-SRN-420 | | A-LP-III-SRN-116 B-LP-III-NRT-227 | |
| WED | SE-I | CG-SFS-345 | DELD-MMS-345 | | A-OCGL-ASD-115 B-OCGL-DPG-119 C-DSL-VVW-121 | | | DM-HR-345 | OOP-ASD-345 |
| | TE-I | SPOS-ASB-440 | DBMS-MAP-440 | | A-CHL-SVA-101 B-LP-I-ASB-121 C-LP-I-PWG-120 D-DBMSL-VVN-227 | | | TOC-VVW-440 | |
| | BE-I | | BCT-VVN-420 | | ML-SRN-420 | OOP-IV-AJK-101 | | A-LP-IV-AJK-101 B-LP-III-SRN-116 C-LP-III-NRT-227 D-LP-IV-ASB-115 | |
| THU | SE-I | FDS-SGD-345 | DELD-MMS-345 | | A-DSL-VVW-121 B-DELD-MMS-102 C-OCGL-ASD-115 | | | A-OCGL-ASD-119 B-BCS-MAP-115 C-BCS-MMS-102 | |
| | TE-I | | DBMS-MAP-440 | | A-DBMSL-AMJ-116 B-DBMSL-VVN-227 C-LP-I-ASB-121 D-LP-I-PWG-119 | | | SEMINAR | |
| | BE-I | PROJECT | | | STQA-SSJ-420 | OOP-IV-AJK-101 | | C-LP-III-SRN-116 D-LP-III-NRT-227 | |
| FRI | SE-I | | | | A-BCS-MAP-115 B-DSL-NR-120 C-OCGL-ASD-102 | | | DELD-MMS-345 | HSS-PWG-349 |
| | TE-I | | CH-SVA-440 | | A-LP-I-ASB-121 B-LP-I-PWG-116 C-DBMSL-VVN-121 D-CHL-SVA-119 | | | SPM-MAP-440 | TOC-VVW-440 |
| | BE-I | PROJECT | | | STQA-SSJ-420 | DAA-NRT-420 | | B-LP-IV-AJK-115 D-LP-III-SRN-116 | |

Time Table In-charge
 Mrs. M.M Swami

M.M Swami

H.O.D.
 Dr. S.V Athawale

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AISSMS

COLLEGE OF ENGINEERING

(Accredited by NASS with grade A+)



DEPARTMENT OF COMPUTER ENGINEERING CLASS TIMETABLE DIVISION-B (TERM-I) A.Y. 2022-23

| DAY | Class/Time | 8.15-9.15 | 09:15-10:15 | 10:15-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1.00 | 1.00-2.00 | 2.00-3.00 |
|-----|------------|---|--------------|-------------|--------------|---------------|------------|--|------------------------------|
| MON | SE II | A-DSL-SGD-121 B-OCGL-SSJ-115 C-BCS-SJP-120 | | | FDS-SGD-340 | CG-SFS-340 | | A-BCS-NR-120 B-BCS-SRN-115 C-DELD-VVN-102 | |
| | TE II | SPOS-PWG-340 | SPM-ASD-340 | | TOC-DPG-345 | DBMSL-MMP-345 | | A-DBMSL-MMP-121 B-LP-1-PWG-116 C-LP-1-ASB-121 D-CNL-SJP-119 | |
| | BE II | A-LP-III-DMU-101 B-LP-III-AMJ-116 | | | PROJECT | | | OOMD-AMJ-420 | ML-DMU-420 |
| TUE | SE II | A-OCGL-SFS-120 B-DSL-SGD-121 C-OCGL-SSJ-115 | | | OOP-SSJ-340 | CG-SFS-340 | | DELD-MMS-340 | HSS-NR-344 (SEMINAR HALL) |
| | TE II | | TOC-DPG-440 | | DBMSL-MMP-34 | SPOS-PWG-34 | | A-LP-1-PWG-119 B-DBMSL-MMP-121 C-CNL-SJP-120 D-LP-1-ASB-121 | |
| | BE II | A-LP-IV-SSK-119 B-LP-III-DMU-101 C-LP-III-AMJ-116 | | | PROJECT | | | STQA-SSK-420 | ML-DMU-420 |
| WED | SE II | A-DSL-NR-120 B-OCGL-SSJ-115 C-DSL-SGD-121 | | | DM-NR-340 | DELD-MMS-340 | | OOP-SSJ-340 | |
| | TE II | | SPM-ASD-340 | | CN-SJP-345 | DBMSL-MMP-345 | | A-DBMSL-SSK-121 B-CNL-SJP-120 C-DBMSL-MMP-121 D-LP-1-PWG-119 | |
| | BE II | A-LP-III-AMJ-116 C-LP-III-DMU-101 D-LP-IV-SSK-119 | | | DAA-NRT-440 | ML-DMU-440 | | BCT-VVN-420 | OOMD-AMJ-420 |
| THR | SE II | A-DELD-VVN-102 B-DSL-VVW-121 C-OCGL-SSJ-115 | | | FDS-SGD-340 | CG-SFS-340 | | DM-NR-340 | OOP-SSJ-340 |
| | TE II | | SPOS-PWG-340 | | SEMINAR | CN-SJP-345 | | A-LP-1-ASB-120 B-DBMSL-SSK-121 C-LP-1-PWG-119 D-DBMSL-MMP-121 | |
| | BE II | B-LP-IV-SSK-119 D-LP-III-DMU-101 | | | DAA-NRT-440 | STQA-SSK-440 | | BCT-VVN-420 | |
| FRI | SE II | A-OCGL-SSJ-115 B-DELD-MMS-102 C-DSL-SGD-121 | | | FDS-SGD-340 | DELD-MMS-340 | | DM-NR-340 | |
| | TE II | | SPM-ASD-340 | | CN-SJP-345 | TOC-DPG-440 | | A-CNL-SJP-119 B-LP-1-ASB-120 C-DBMSL-SSK-121 D-DBMSL-MMP-121 | |
| | BE II | C-LP-IV-SSK-119 D-LP-III-DMU-101 | | | STQA-SSK-440 | OOMD-AMJ-440 | | DAA-NRT-420 | BCT-VVN-420 |

Time Table In-charge

Mrs. Neha Rai

H.O.D.
Dr. S.V. Athawale

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AISSMS



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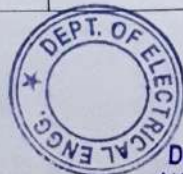
DEPARTMENT OF ELECTRICAL ENGINEERING

MASTER TIME TABLE

ACADEMIC YEAR 2022-23 TERM - I

| Time | Class | 08.15 AM - 09.15 AM | 09.15 AM - 10.15 AM | 10.30 AM - 11.30 AM | 11.30 AM - 12.30 PM | 01.00 PM - 02.00 PM | 02.00 PM - 03.00 PM | 03.00 PM - 04.00 PM |
|------|-------|--|---------------------------------------|--|---|---|---|--------------------------|
| Day | | | | | | | | |
| MON | SE | Batch A: ADE (VNT) EMI (SMC) | Batch B: Batch C: MS (SM) | M-III (426) | PGT (V2) (426) | MS (SM) (436) | EMI (SMC) (436) | |
| | TE | EM/C-II (RSS) (436) | EIDCBM (SV) (436) | Batch A: EM/C - II (RSS) (CDK) | Batch B: PE Batch C: EIDCBM (SV) | AMC (V2) (426) | Batch A: PE (AAA) EIDCBM (LSG) | Batch B: EIDCBM (LSG) |
| | BE | PLC (SL) -426 | ACS (AAG) -426 | PSOC (VSP) -436 | EHV (SKB) -436 | Batch A: PSOC (VSP) (AAG) | Batch B: ACS Batch C: EHV (T) (SKB) Batch D: PLC - SCADA (SL) | |
| | | | | | | | | |
| TUE | SE | Batch A: M-III (V2) ADE (VNT) (SMC) | Batch B: Batch C: EMI | MS (SM) (426) | M-III (426) | Batch A: EMI (SMC) (SM) | Batch B: MS Batch C: SS (RSS) | |
| | TE | ITM (NGS) (436) | PE (AAA) (436) | Batch B: EM/C - II (RSS) (AAA) | Batch C: PE Batch D: EIDCBM (LSG) | Batch C: EIDCBM (SV) (CD) | Batch D: PE | |
| | BE | EHV (SKB) -426 | PLC (SL) -426 | ACS (AAG) -436 | PSOC (VSP) -436 | Batch A: EHV (T) SKB SCADA (V1) (VSP) | Batch B: PLC - Batch C: PSOC Batch D: ACS (AAG) | |
| | | | | | | | | |
| WED | SE | Batch A: MS (SM) B: M-III (V2) (SMC) | Batch Batch C: EMI | EMI (SMC) (426) | ADE (VNT) (426) | Batch A: SS (RSS) (SMC) | Batch B: EMI Batch C: MS (SM) | |
| | TE | EIDCBM (SV) (436) | EM/C-II (RSS) (436) | Batch A: EIDCBM (SV) EM/C - II (RSS) | Batch C: Batch D: PE (SL) | PE (AAA) (426) | AMC (V2) (426) | |
| | BE | PLC (SL) -426 | EHV (SKB) -426 | PSOC (VSP) -436 | ACS (AAG) -436 | Batch A: PLC - SCADA (SL) (VSP) | Batch B: PSOC Batch C: ACS (AAG) Batch D: EHV (T) (SKB) | |
| | | | | | | | | |
| THU | SE | Batch A: EMI (SMC) B: MS (SM) (VNT) | Batch Batch C: ADE | ADE (VNT) (426) | PGT (V2) (426) | Batch A: MS (SM) (SKB) | Batch B: SS Batch C: M-III (VSP) | |
| | TE | ITM (NGS) (436) | PE (AAA) (436) | Batch A: PE (AAA) EIDCBM (LSG) (RSS) | Batch B: Batch D: EM/C - II | EM/C - II (RSS) (426) | EIDCBM (SV) (426) | |
| | BE | Batch A: ACS (AAG) EHV (T) (SKB) PLC - SCADA (V1) (VSP) | Batch B: Batch C: Batch D: PSOC | | | | | |
| | | | | | | | | |
| FRI | SE | PGT (V2) (426) | M-III (426) | EMI (SMC) (426) | MS (SM) (426) | ADE (VNT) (436) | | |
| | TE | Batch A: EIDCBM (SV) PE (CDK) | Batch B | ITM (NGS) (436) | AMC (V2) (436) | Batch C: PE (AAA) EIDCBM (LSG) | Batch D: | |
| | BE | | | | | | | |
| | | | | | | | | |

V.S. P. N. K. S. H.



Head

Department of Electrical Engineering
AISSMS College of Engineering, Pune



AISSMS

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Recognized by
Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University
and recognized 2(f) and 12(B) by UGC (Id. No. PU / PN/ Engg. / 093 (1992)
Accredited by NAAC with 'A+' Grade



DEPARTMENT OF ELECTRICAL ENGINEERING

MASTER TIME TABLE ADEMIC YEAR 2022-23 TERM - II

| Time | Class | 08.15-09.15 AM | 09.15-10.15 AM | 10.30 - 11.30 AM | 11.30 - 12.30 PM | 01.00-02.00 PM | 02.00-03.00 PM | 03.00-04.00 PM |
|------|-------|--|----------------------------------|---|----------------------|---------------------------------------|--|----------------|
| Day | | | | | | | | |
| MON | SE | Batch A - NA (SKB) Batch B - FMA (AAG) Batch C - EM/C - I (LSG) | | PS- I (SMC) (426) | FMA (AAG) (426) | NA (SKB) (436) | NMCP (SV) (436) | Audit Course |
| | TE | CSE (AAA) (436) | EAM (VVK) (244) EM (SM) (436) | Batch A - PS- II (VSP) Batch B - CSE (AAA) - CADEM (SM) Batch C - CADEM (SM) Batch D - CADEM (VVK) | | PS-II (VSP) (426) | PS-II (T) - A (VSP) CSE (T) - B (AAA) | Audit Course |
| | BE | SGP (VNT) (426) | AEDC (PKS) (426) | IE (SV) (436) | SG (RSS) (436) | Batch A - SGP (VNT) AEDC (PKS) | | Audit Course |
| TUE | SE | Batch A - FMA (RSS) Batch B - EM/C - I (LSG) Batch C - NMCP (SV) | | E MC - I (LSG) (426) | PS- I (SMC) (426) | FMA (AAG) (436) | NA (SKB) (436) | GFM Meeting |
| | TE | CADEM (VVK) (436) | CSE (AAA) (436) | Batch A - CADEM (SM) Batch B - PS- II (VSP) Batch C - CSE (SKB) Batch D - CADEM (VVK) | | EAM (VVK) (244) EM (SM) (426) | PS-II (T) - C (VSP) CSE (T) - D (AAA) | GFM Meeting |
| | BE | AEDC (PKS) (426) | SGP (VNT) (426) | SG (RSS) (436) | IE (SV) (436) | Batch C - SGP (VNT) D - AEDC (PKS) | | GFM Meeting |
| WED | SE | Batch A - EMC-I (LSG) Batch B - PBL (SKB) Batch C - FMA (RSS) | | E MC - I (LSG) (426) | FMA (AAG) (426) | PS- I (SMC) (436) | NMCP (SV) (436) | Mentor Meeting |
| | TE | PS-II (VSP) (436) | CADEM (VVK) (436) | Batch A - CADEM (SM) Batch B - CADEM (VVK) Batch C - PS- II (VSP) Batch D - CSE (AAA) | | CSE (AAA) (426) | PS-II (T) - D (VSP) CSE (T) - A (AAA) | Mentor Meeting |
| | BE | SGP (VNT) (436) | AEDC (PKS) (436) | IE (SV) (436) | SG (RSS) (426) | Batch B - SGP (VNT) C - AEDC (PKS) | | Mentor Meeting |
| THU | SE | Batch A - PBL (RSS) Batch B - FMA (AAG) Batch C - NA (SKB) | | NA (SKB) (426) | NMCP (SV) (426) | E MC - I (LSG) (436) | Batch B - NMCP (SV) PBL (LSG) | Batch C |
| | TE | EAM (VVK) (244) EM (SM) (426) | PS-II (VSP) (436) | Batch A - CSE (SMC) Batch B - CADEM (VVK) Batch C - CADEM (SM) Batch D - PS- II (VSP) | | CADEM (VVK) (436) | PS-II (T) - B (VSP) CSE (T) - C (SKB) | |
| | BE | Batch D - SGP (VNT) A - AEDC (PKS) | | Project | | Project | | |
| FRI | SE | Batch A - FMA (RSS) Batch B - NA (SKB) Batch C - PBL (LSG) | | Batch A - NMCP (SV) Batch C - PBL (SKB) | | Batch A - PBL (RSS) - FMA (AAG) | | Batch C |
| | TE | | | | | | | |
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Time-Table Incharge
Electrical Engg Dept

V.S. Poreksha

Head
Electrical Engg Dept

Head

Department of Electrical Engineering
AISSMS College of Engineering, Pune



DEPARTMENT OF E&TC ENGINEERING

Master E&TC TIME TABLE

ACADEMIC YEAR 2022-23 TERM - I

WEF: 07/09/2022

| Time Day | Class | 8.15-9.15 | 9.15-10.15 | 10.15-10.30 | 10.30-12.30 | | 12.30 to 1.00 | 1.00 to 2.00 | 2:00 to 3:00 | 3.00 to 4.00 |
|----------|-----------|---|----------------------------------|-------------|---|------------------------------|---------------|---|---------------------------|----------------|
| MON | SE (E&TC) | A:EC(VBG)-432 B: EleC (VSN)-456 C:ESD (VDN)-452 D:DC (PPT)-431 | | BREAK | EC (VBG) 417 | ElecC (VSN) 417 | | DC (VVD) 425 | EM-III (Mr.Surase) 425 | |
| MON | TE (E&TC) | Microcontrollers (PPV) 417 | CN / FJP (VVD / SBD) SH / 417 | | A: DC (YPL)-451 B: MC (PPV)-453 C:EL1 (CN - VVD)-452 D:SD (NPM)-432 | | | EFT (RRI) 417 | DBM (VDN) 417 | |
| MON | BE (E&TC) | VLSI (NPM) 425 | DL / EPD (KBC/YPL) 425 | | CC (PPT) 425 | MIOT / JS (RRI / SBD) 425 | | A: VLSI (NPM)-452 B: RMT (SBD)-451 C:CC (PPT)-456 D:JS (SBD)-453 | | |
| TUE | SE (E&TC) | A:ESD (VDN)-431 B: EC(VBG)-432 C:EleC (VSN)-456 D:DS (KBC)-452 | | | EC (VBG) 417 | EM-III (Mr.Surase) 417 | | DC (VVD) 425 | | |
| TUE | TE (E&TC) | CN / FJP (VVD / SBD) SH / 417 | EFT (RRI) 417 | | A:DBM (VDN)-452 B: EFT (TUT)-432-RRI C:MC (PPV)-453 D:EL1 (CN - VVD)-456 | | | DC (YPL) 417 | | Mentor Meeting |
| TUE | BE (E&TC) | RMT (SBD) 425 | CC (PPT) 425 | | VLSI (NPM) 425 | DL / EPD (KBC/YPL) 425 | | A: MIOT (RRI)-453 B: VLSI (NPM)-452 C:RMT (SBD)-451 D:CC (PPT)-456 | | |
| WED | SE (E&TC) | A:DS (KBC)-452 B:ESD (VBG)-432 C:DC(VVD)-431 D:EleC (VSN)-456 | | | DS (KBC) 417 | ElecC (VSN) 417 | | EC (VBG) 425 | | |
| WED | TE (E&TC) | DC (YPL) 417 | Microcontrollers (PPV) 417 | | A:MC (PPV)-453 B:EL1 (FJP- SBD)-456 C: DC (YPL)-451 D:DBM (VDN)-452 | | | CN / FJP (VVD / SBD) SH / 417 | | |
| WED | BE (E&TC) | MIOT / JS (RRI / SBD) | VLSI (NPM) | | RMT (SBD) | CC (PPT) | LUNCH BREAK | A: CC (PPT)-456 B: MIOT (RRI)-453 | | |



AISSMS COLLEGE OF ENGINEERING

आचार्य संकायज्जालिया
Accredited by NAAC with "A+" Grade



| THURS | SE (E&TC) | 425 | 425 |
|-------|-----------|--|------------------------------|
| THURS | SE (E&TC) | A:EleC (VSN)-456 B:DC(VVD)-431 C:DS (KBC)-452 D:EC(VBG)-432 | |
| THURS | TE (E&TC) | DBM (VDN) 417 | DC (YPL) 417 |
| THURS | BE (E&TC) | RMT (SBD) 425 | MIOT / JS (RRI / SBD) 425 |
| FRI | SE (E&TC) | A:DC (PPT)-431 B:DS (KBC)-452 C:EC(VBG)-432 D:ESD (VSN)-453 | |
| FRI | TE (E&TC) | EFT (RRI) 417 | DBM (VDN) 417 |
| FRI | BE (E&TC) | | |

Dr Prachi P Vast (Timetable I/C)

| 425 | 425 |
|--|---------------------------|
| DC (VVD) 417 | EM-III (Mr.Surase) 425 |
| A: EL1 (FJP- SBD)-456 B:DBM (VDN)-452 C: SD (NPM)-432 D: MC (PPV)-453 | |
| DL / EPD (KBC/YPL) 425 | |
| DS (KBC) 417 | EM-III (Mr.Surase) 417 |
| A:SD (PPV)-432 B:DC (YPL)-451 C:DBM (VDN)-452 D: EFT (TUT)-RRI-417 | |
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| C:VLSI (NPM)-452 D:RMT (SBD)-451 | | |
| DS (KBC) 417 | | |
| Microcontrollers (PPV) 417 | A- EFT (TUT) (RRI) 417 | |
| A: RMT (SBD)-451 B: CC (PPT)-456 C:JS (SBD)-453 D:VLSI (NPM)-452 | | |
| ElecC (VSN) 425 | | |
| B:SD (PPV)-432 | | |
| C: EFT (TUT)-RRI-417 | | |
| D: DC (YPL)-451 | | |
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Dr S B Dhole (HOD, Dept of E&TC Engg)

Head
Department of Electronics & Telecommunication
AISSMS's COEPUNE-411001.



| AISSMS COE PUNE DEPARTMENT OF E&TC ENGINEERING MASTER TIME TABLE ACADEMIC YEAR 2022-23 TERM - II | | | | | | | | | | | WEP:23/01/2023 |
|---|-----------|--|------------------|-------------|---|------------------|----------------|--|--------------|-----------------------|----------------|
| Time Day | Class | 8.15 -9.15 | 9.15 -10.15 | 10.15-10.30 | 10.30-11.30 | 11.30-12.30 | 12.30 to 01:00 | 01:00-2:00 | 2:00-3.00 | 3.00- 4.00 | |
| MON | SE (E&TC) | OOP (SBD) 425 | S&S (VVD) 425 | SHORT BREAK | PCS (VSN) 425 | CS (VBG) 425 | LUNCH BREAK | A: S & C (VVD) - 456 B: OOP (SBD) - 453 C: PCS (VSN) - 451 D: BSD (VDN) - 432 | | PBL 431 | |
| MON | TE (E&TC) | CN (PPV) 417 | PM (VDN) 417 | | A: NS(SBD)-453 B: PDC (NPM) - 437 C: A/P(PPT) - 452 D: CN(PPV)-456 | | | NS/AJP (SBD/PPT) 417/404 | Mini Project | | |
| MON | BE (E&TC) | A: DBM (PPT) -437 B: OFC(YPL) - 451 C: MC(RRI) - 452 D: IE (VBG)-432 | | | MC (RRI) 417 | DM (KBC) 417 | | OFC (YPL) 425 | Library | | |
| TUE | SE (E&TC) | PCS (VSN) 425 | OOP (SBD) 425 | | CS (VBG) 425 | ESD (VDN) 425 | | A: DAL (KBC) - 452 B: S & C (VVD) - 456 C: OOP (SBD) - 453 D: PCS (VSN) - 451 | | Mentor Meet / Library | |
| TUE | TE (E&TC) | PM (VDN) 417 | PDC (NPM) 417 | | A: CN (PPV) - 456 B: NS (SBD) - 453 C: PDC (NPM) - 437 D: AJP (PPT) - 452 | | | NS/AJP (SBD/PPT) 417/404 | Mini Project | Mentor Meet | |
| TUE | BE (E&TC) | A: OFC(YPL) - 451 B: MC(RRI) - 452 C: IE(VBG)-432 D: DBM (PPT) - 437 | | | OFC (YPL) 417 | DM (KBC) 417 | | MC (RRI) 425 | | Mentor Meet | |
| WED | SE (E&TC) | CS (VBG) 425 | S&S (VVD) 425 | | A: PCS (VSN) -451 B: DAL (KBC) - 452 C: ESD (VDN) - 432 D: OOP (SBD) - 453 | | | A: S&S-TUT (VVD) 425 | Audit Course | PBL 431 | |
| WED | TE (E&TC) | CN (PPV) 417 | PM (VDN) 417 | | NS/AJP (SBD/PPT) 417/404 | PDC (NPM) 417 | | A: PDC (NPM)- 437 B: C: CN (PPV) - 456 D: | | | |
| WED | BE (E&TC) | A: MC(RRI) - 452 B: IE(NPM) - 432 C: DBM (PPT) -437 D: OFC(YPL) - 451 | | | MC (RRI) 425 | OFC (YPL) 425 | | DM (KBC) 417 | | | |
| THURS | SE (E&TC) | ESD (VDN) 425 | S&S (VVD) 425 | | A: ESD (VDN) - 432 B: PCS (VSN) -451 C: DAL (KBC) - 452 | | | B: S&S-TUT (VVD) 425 | Audit Course | Department Meet | |



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| | | PDC (NPM) 417 | CN (PPV) 417 | | | | | | |
| THURS | TE (E&TC) | | | | | | | | |
| THURS | BE (E&TC) | B: DBM (PPT) -437 C:OFC(YPL) - 451 D:MC (RRI) -452 | | | | | | | |
| FRI | SE (E&TC) | A: OOP (SBD) - 453 B: ESD (VDN) - 432 C: S & C (VBG) - 456 D: DAL (KBC) - 452 | | | | | | | |
| FRI | TE (E&TC) | SOFT SKILL | | | | | | | |
| FRI | BE (E&TC) | Project Stage -II | | | | | | | |
| | | | | D:S & C (VBG) - 456 | | | | | |
| | | | | A: B: CN (PPV) - 453 C: D:PDC (NPM) - 437 | | | | | |
| | | | | A:IE(RRI) - 404 | | | | | |
| | | | | PCS (VSN) 425 | OOP (SBD) 425 | | | | |
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| | | | | Project Stage -II | | | | | |
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AISSMS

COLLEGE OF ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING
MASTER TIME TABLE (Offline Teaching)
ACADEMIC YEAR 2022-23 TERM - I

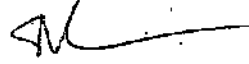
WET: 29/08/2022

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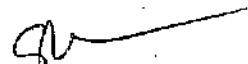
| DAY | TIME | CLASS | 8:15 to 9:15 | 9:15 to 10:15 | 10:15 to 10:30 | 10:30 to 11:30 | 11:30 to 12:30 | 12:30 to 13:00 | 13:00 to 14:00 | 14:00 to 15:00 | 15:00 to 16:00 | 16:00 to 17:00 |
|-----|------|----------------|--|---------------|----------------|---|----------------|----------------|---|----------------|----------------|----------------|
| MON | | SEM-A 341 | A-SM-224-PSG B-SMD-217A-PVD C-ENM-213-MSS | | | SM-341-PSG | SMD-341-PVD | | ET-341-SAA | EMM-341-MSS | | |
| | | SEM-B 341& 337 | A-ET-15A-SAA B-EEE-104-SSM C-GD&T-221-BDB | | | A-SM-224-ATT B-SMD-217A-MPS C-EEE-104-SSM | | | SM-337-MMS | EEE-337-SSM | | |
| | | SEMS 337 | SMD-337-MPS | SM-337-ATT | | EMM-337-YPP | ET-337-GPL | | A-GD&T-221-GPL B-EEE-104-VNT C-SMD-217A-MPS | | | |
| | | TEM-A 422 | A-NSM(TUT)-231-PSA B-HMT-219-MRD C-DME-242-SRP D-DML-217B-MPB | | | EL-I-MST-MPB-422 | NSM-422-SJN | | A-HMT-219-MRD B-DME-242-SRP C-DML-217B-NNG D-MTX-222-OAM | | | |
| | | TEM-B 422,433 | MTX-422-SHW | HMT-422-SJN | | EL-I-MST-BDB-433 | NSM-433-PSA | | A-DME-224-MRP B-SD-125-PSA C-SD-213-MPB D-DML-217B-PRT | | | |
| | | TEMS 433 | MTX-433-OAM | NSM-433-DSM | | A-MTX-222-PRT B-NSM(TUT)-217B-DSM C-HMT-219-CSC D-PCAE-231-DVD | | | HMT-433-CSC | AC-433 | | |
| | | BEM-A 414 | HVAC-414-MSD | DOM-414-CSD | | A-HVAC-220-MSD B-TURBO-014-MUG C-PROJECT D-PROJECT | | | A-DOM-223-CSD B-PROJECT C-PROJECT D-TURBO-014-MUG | | | |
| | | BEM-B 419 | A-TURBO-014-MUG B-DAL-223-YPP C-DOM-223-MMS D-PROJECT | | | DOM-419-CSD | HVAC-419-AVW | | A-PROJECT B-PROJECT C-DAL-223-YPP D-HVAC-220-AVW | | | |

Head of Department
Mechanical Engineering
AISSMS, COE, PUNE


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|-----|----------------|---|--------------|--|--|--|--|--|-------------|-----------------------|
| TUE | SEM-A 341 | A-ET-15A-MSD B-SM-224-PSG C-SMD-217A- PVD | | | SM-341-PSG | EEE-341-SHL | | EMM-341-MSS | 0 | MENTOR-MENTEE MEET |
| | SEM-B 341& 337 | SMD-341-MSS | EEE-341-SSM | | A-EMM-213- NNG B-SM-224- MMS C-SMD-217A-MSS | | | A-EEE-104- SSM B-QD&T- 221 - SVC C- ET-14A - SAA | | |
| | SEMS 337 | ET-337-GPL | SMD-337-MPS | | SM-337-ATT | EMM-337-YPP | | A- SM-224- ATT B- SMD-217A- MPS C-ET-15A-GPL | | |
| | TEM-A 422 | A-MTX-222- PRT B-DML-217B - NNG C-HMT- 219- MRD D-NSM(TUT)-231 - PSA | | | MTX-422- OAM | NSM-422-SJN | | HMT-422-MRD | DME-422-SRP | |
| | TEM-B 422,433 | DME-422-MRP | MTX-422-SHW | | EL-I-MST-BDB- 433 | NSM-433-PSA | | A-MTX-222- SHW B-NSM(TUT)-231- PSA C-HMT- 219- SJN D-DME-242- MRP | | |
| | TEMS 433 | NSM-433-DSM | FCAE-433-DYD | | A-FCAE-231-DYD B- MML-221-MPB C-DML-217B -MPS D-DME-242-RAM | | | DME-433-RAM | HMT-433-CSC | |
| | BEM-A 414 | TURBO-414-MUG | DOM-414- CSD | | EL-IV- OR/PDD/ARVR- PRT/SHW/P2- 419/414/014 | EL-III- IE/AD/IO-T- 414/014/015- SVC/PVD/P1 | | A-DAL- 225- DSM B-HVAC-220 -MSD C-DAL- 217B YPP D-DOM-223- CSD | | |
| | BEM-B 419 | A-DOM-223- MMS B-PROJECT C-PROJECT D-TURBO-014 -SAA | | | EL-IV- OR/PDD/ARVR- -PRT/SHW/P2- 419/414/014 | EL-III- IE/AD/IO-T- 419/014/015- DSM/PVD/P1 | | 0 | | |


 Head of Department
 Mechanical Engineering
 IISMS, COE, PUNE

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|-----|-----------------|---|--------------|--|--|---------------|--|--|--------------------------|--|
| WED | SEM-A 341 | A-SMD-217A-PVD B-ET-15A-GPL C-GD&T-224-BDB | | | SMD-341-PVD | EEE-341-SHL | | SM-341-PSG | ET-341-SAA | |
| | SEM-B 341 & 337 | SMD-341-MSS | SM-341-MMS | | A-SMD-217A-MSS B-ET-15A-SAA C-EMM-213-NNG | | | ET-337-SAA | EMM-337-NNG | |
| | SEMS 337 | EEE-337-SSM | SM-337-ATT | | ET-337-GPL | EEE-337-SSM | | A-EEE-104-SSM B-GD&T-125-SVC C-EMM-213-YPP | | |
| | TEM-A 422 | A-DML-217B-NNG B-MTX-222-OAM C-NSM(TUT)-231-SJN D-SD-125-PSA | | | HMT-422-MRD | DME-422-SRP | | MTX-422-OAM | AC-422- (Fortnightly) | |
| | TEM-B 422, 433 | AC-422 (Fortnightly) | DME-422-MRP | | A-HMT-219-SJN B-DML-217B-MPB C-NSM(TUT)-231-PSA D-MTX-222-SHW | | | A-NSM(TUT)-231-PSA B-DME-419-ATT C-DME-224-MRP D-HMT-219-SJN | | |
| | TEMS 433 | A-HMT-219-CSC B-DME-242-RAM C-MML-221-MPB D-DML-225-MPS | | | HMT-433-CSC | PCAE-433-DYD | | A-MML-221-MPB B-MTX-222-PRT C-DME-242-RAM D-NSM(TUT)-217A-DSM | | |
| | BEM-A 414 | EL-IV- OR/PDD/ARVR- PRT/SHW/P2- 419/414/433 | HVAC-414-MSD | | A-PROJECT B-DOM-223-CSD C-HVAC-220-MSD D-DAL-225-DSM | | | 0 | 0 | |
| | BEM-B 419 | EL-IV- OR/PDD/ARVR- PRT/SHW/P2- 419/414/433 | DOM-419-CSD | | HVAC-414-AVW | TURBO-414-MUG | | A-HVAC-220-AVW B-DOM-223-MMS C-TURBO-014-MUG C-PROJECT | | |



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| | | | | | | | | | | |
|-----|----------------|---|--|--|---|---------------|--|--|-------------|-----------------------|
| THR | SEM-A 341 | A-EMM-213-MSS B-EEE-104-RSS C-ET-15A- GPL | | | ET-341-SAA | EMM-341-MSS | | EEE-341-SHL | SM-341-PSG | DEPARTMENT MEETING |
| | SEM-B 341& 337 | ET-341-SAA | SM-341-MMS | | EEE-337-SSM | EMM-337-NNG | | B-EMM-213- NNG | | |
| | SEMS 337 | SM-337-ATT | EMM-337-YPP | | A-EMM-213- YPP B-ET-15A- GPL C-SM-224- ATT | | | C-EEE- 104- VNT | | |
| | TEM-A 422 | EL-I-MST-MPB-422 | DME-422-SRP | | MTX-422-OAM | HMT-422-MRD | | | | |
| | TEM-B 422,433 | EL-I-MST-BDB-433 | MTX-433-SHW | | NSM-433-PSA | HMT-433-SJN | | A-DML- 217A-PRT B- HMT-219- SJN C-MTX-222- SHW D-NSM(TUT)-231 - PSA | | |
| | TEMS 433 | A-DML-217A- MPS B-HMT-219-CSC C-FCAE-231 -DYD D- MTX-222-PRT | | | A-NSM(TUT)-217B-DSM B-FCAE- 231-DYD C-MTX-222 -PRT D-MML-221-MPB | | | DME-433-RAM | MTX-433-OAM | |
| | BEM -A 414 | TURBO-414-MUG | EL-III-IE/AD/IGT-414/014/224-SVC/PVD/P1 | | HVAC-419-MSD | DOM-419-CSD | | A-PROJECT B-DAL- 225 DSM C-TURBO-014 -MUG D-HVAC-220 -MSD | | |
| | BEA-B 419 | DOM-CSD-419 | EL-III-IE/AD/IGT-419/014/224-DSM/PVD /P1 | | HVAC-414-AVW | TURBO-414-MUG | | A-DAL- 217B- YPP D-DOM-223- MMS | | |


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 Mechanical Engineering
 WISSNS. COE, PUNE

| | | | | | | | |
|-----|----------------|--|--|---|----------------------|--|-------------------------|
| FRI | SEM-A 341 | A-GD&T-224-BDB B-EMM-213- MSS C-EEE-104- SV | | A-EEE-104- RSS B-GD&T-219-BDB C-SM-15A- PSG | | SMD-341-PVD | AC-341 (Fortnightly) |
| | SEM-B 341& 337 | EMM-341-NNG | ET-341-SAA | SM-341-MMS | SMD-341-MSS | A-GD&T-221-SVC C-SM-213- MMS | |
| | SEMS 337 | SMD-337-MPS | EEE-337-SSM | A-SMD-217A- MPS B-EMM-213- YPP C-GD&T-224- SVC | | A-ET-15A- GPL B-SM-224- ATT | |
| | TEM-A 422 | A-DME-242-SRP B-SD-125 - PSA C-SD-15A- ATT D-HMT-219- MRD | | NSM-422-SJN | EL-I-MST- MPB-422 | A-SD-125 - PSA B-NSM(TUT)-231- SJN C-MTX-222 - OAM D-DME-242- SRP | |
| | TEM-B 422,433 | DME-422-MRP | HMT-422-SJN | A-SD-242 -MRD B-MTX-222 - SHW C-DML-231- PRT D-SD-419- GPL | | | |
| | TEMS 433 | MTX-433-OAM | FCAE-433-DYD | DME-433-RAM | NSM-433-DSM | A- DME-014 - RAM B-DML-217A - NNG C-NSM(TUT)-217B-DSM D-HMT-219-CSC | |
| | BEM-A 414 | EL-III-IE/AD/10T -414/014/223 SVC/PVD/P1 | EL-IV- OR/PDD/ARVR- PRT/SHW/P2- 419/414/014 | A-TURBO-015-MUG B-PROJECT C-DOM-223- CSD D-PROJECT | | | |
| | BEM-B 419 | EL-III-IE/AD/10T -419/014/223 -DSM/PVD/P1 | EL-IV- OR/PDD/ARVR- PRT/SHW/P2- 419/414/014 | B-TURBO-125-SAA C-HVAC-220 -AVW D-PROJECT | | A-PROJECT B-HVAC-220 -AVW D-DAL- 225-YPP | |

GFM MEETING


Prof. M P Shah(Chokshi)

Department Time Table Incharge

Dr. S V Chaitanya

H.O.D

**Head of Department
Mechanical Engineering
AISSMS, COE, PUNE**


Dr. D S Bormane

Central Time Table Incharge

Dr D S Bormane

Principal

ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING, PUNE
DEPARTMENT OF PRODUCTION ENGINEERING
MASTER TIME TABLE
ACADEMIC YEAR 2021-22 TERM - I

WEEK: 18/07/2022 - BE
 SE: 7/11/2022

| Time Day | Class | 08.15-09.15 | 09.15-10.15 | 10.30-11.30 | 11.30-12.30 | 13.00-14.00 | 14.00-15.00 | 15.00-16.00 |
|----------|-------|--|--------------------|---|---------------------------|---|---------------------|---|
| MON | SE | H&FE SSK 237 | MS&M SKB 237 | SOM MLC 237 | EM III KBK 237 | MS&M Lab Batch (A)-128 | | A&B: M-III TUTORIAL (237) |
| | BE | MA VYS 240 | OR VDD 240 | IR SNC 240 | CPD NGS 240 | MA - Batch A - 128(VYS) OR - Batch B - 017 (VDD) CPD - Batch C - 128 (NGS) | | Library & Reading Session |
| TUE | SE | EM III KBK 237 | SOM MLC 237 | H&FE SSK 237 | MP-I MAK 237 | SOM Lab Batch (A)-237 | | C&D: M-III TUTORIAL (237) |
| | BE | OR VDD 240 | MA VYS 240 | CPD NGS 240 | IR SNC 240 | CPD - Batch A - 129(NGS) IR - Batch B - 236 (SNC) OR - Batch C - 017 (VDD) | | Mentoring & Counseling Session |
| WED | SE | MP-I MAK 237 | H&FE SSK 237 | SOM MLC 237 | MS&M SKB 237 | MDGC Lab Batch(A)-126 | | Remedial Lectures (237) |
| | BE | CPD NGS 240 | IR SNC 240 | MA VYS 240 | OR VDD 240 | IR - Batch A - 237 (SNC) CPD - Batch B - 128 (NGS) MA - Batch C - 129 (VYS) | | Remedial Lectures (240) |
| THU | SE | SOM MLC 237 | MS&M SKB 237 | MP-I MAK 237 | MDGC Lab Batch(A)-126 | EM III KBK 237 | MPLab Batch(A)-126 | |
| | BE | OR - Batch A - 017 MA - Batch B - 128 IR - Batch C - 236 | | MP: Group 1,2,3 - (017) MAK MP: Group 4,5,6 - (126) SSK MP: Group 7,8,9 - (128) MLC MP: Group 10,11,12 - (236) YKF | | MP: Group 1,2,3 - (017) MAK MP: Group 4,5,6 - (126) SSK MP: Group 7,8,9 - (128) MLC MP: Group 10,11,12 - (236) YKF | | |
| FRI | SE | H&FE SSK 237 | MS&M SKB 237 | MP-I MAK 237 | EM III KBK 237 | H&FE Lab Batch (A)-128 | | GFM Meeting |
| | BE | | | | | | | |

Time-Table Incharge
 Production Engg Dept

Head of Department
 Production Engg Dept

Head of Department
Production Engineering
AISSMS COE, PUNE 1



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DEPARTMENT OF COMPUTER ENGINEERING INDUSTRY INSTITUTE INTERACTION

Date :13/10/2023

Nature of the activity: Expert talk

Topic/Theme: Solidity Programming

Objective of the activity: Students can learn more details about Solidity Programming.

Date and Timings: 12/10/2022, 9.00 am to 10.00 am.

Venue: Room 440

Coordinator: Mrs. Vandana V. Navale

Co-coordinator: Ms. Ashwini S. Bhosale

Student Coordinators: Mahant Wagh

No. of students Present: 80

Resource Person:

Name : Mr. Vikas Abnave



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Honorary Secretary

Dr. D. S. BORMANE
Principal

Vision

Contributing to the welfare of society through quality education.

Mission

To produce Best Quality Computer Science Professionals by imparting quality training, hands on experience and value education.

To Strengthen links with Industry through partnerships and collaborative developmental works.

To attain self-sustainability and overall development through Research, Consultancy and Development Activities.

To extend technical expertise to other technical Institutions of the region and play a lead role in imparting technical education.

Date: 6/10/2022

To

Mr. Vikas Abnave

Ebsolute Technologies Pvt.Ltd, Pune.

Sub: Invitation for Expert lecture for the students of Computer Engineering.

Dear Sir,

The AISSMS College of Engineering, Pune is affiliated to the Savitribai Phule Pune University, Pune. It conducts undergraduate and post graduate courses in various disciplines of engineering namely, Chemical, Civil, Computer, Electrical, Electronics, Mechanical, Mechanical Sandwich and Production Sandwich.

Department of Computer Engineering runs to UG and PG program in Computer Engineering.

To provide industry exposure and as a part of continuous overall development of our students and faculty, Department organizes expert lectures on various topics. We would like to invite you to deliver lecture on "Block Chain Technology" at (BE Computer Division A) AISSMS COE Pune. Your inputs will be definitely helpful to students. Kindly make it convenient to deliver the lecture.

Thanking You,

Yours Sincerely,

H.O.D.
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AISSMS COE Pune

PEO's

PEO1: To prepare the graduates for successful careers in IT industry, by developing their ability to solve computing problems in multidisciplinary environment.

PEO2: To develop ability among the graduates to analyze data and technical concepts various application development for real-life.

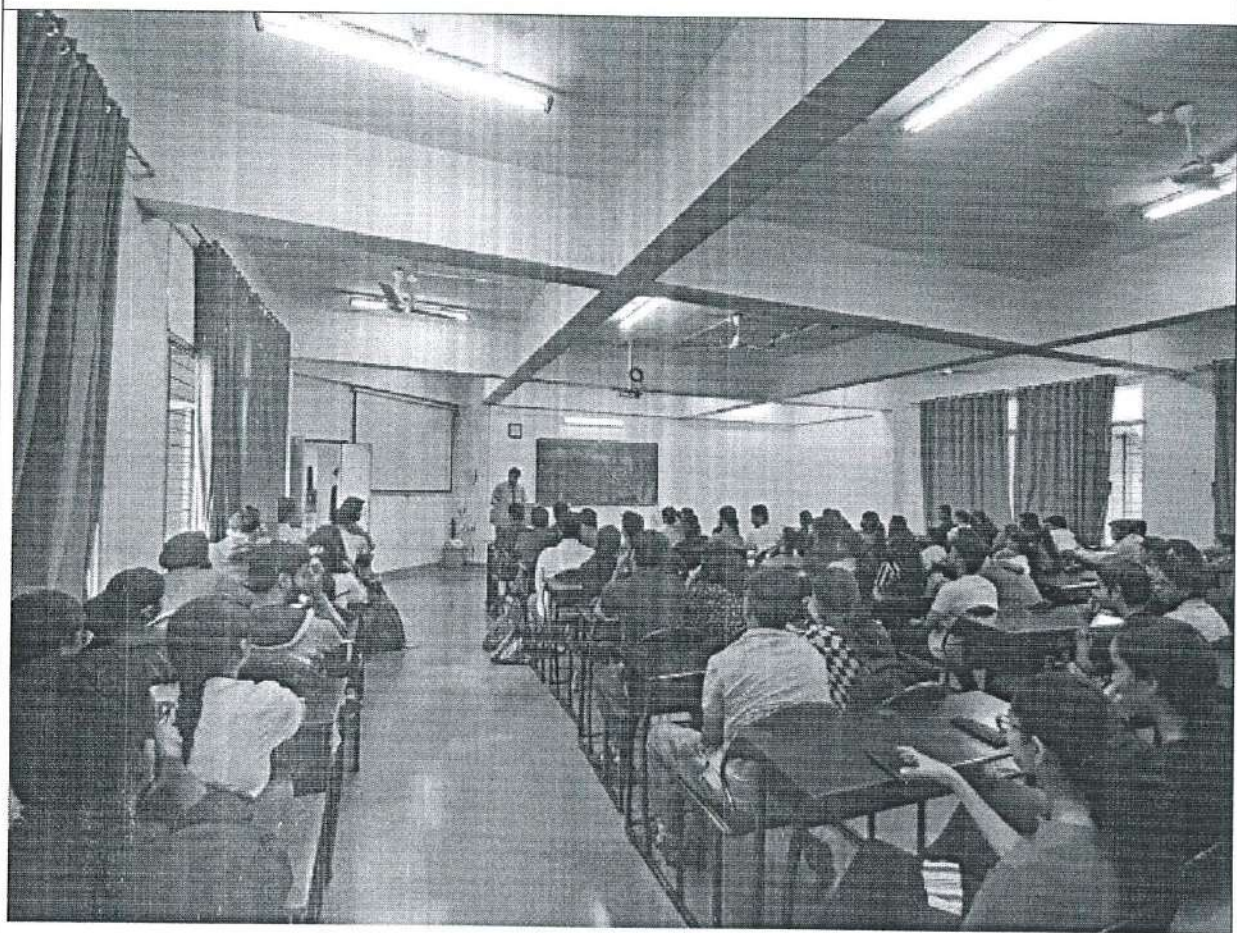
PEO3: To Motivate and provide graduates various opportunities for further studies, team work and successful career in their chosen domain.


PEO4: To motivate and encourage graduates to understand their social, ethical and cultural responsibilities as well with their professional responsibilities.


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Tel : +91 20 2605 8587, 2605 7660, 2605 8342

URL : www.aissmscoe.com Email : contact@aissmscoe.com, principal@aissmscoe.com




 coordinator
 V. V. Navale


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Department of Computer Engineering

Expert Lect

12/10/22

Class: BE-I (A)

Subject: Blockchain Technology (Solidity programming)

| Sr. | Roll No. | Name of the Students | Sign |
|-----|--------------|------------------------------|--------------|
| 1 | D32C1C12:D21 | AASHAY SACHIN BHUJBAL | Aashay |
| 2 | 19CO002 | ADMUTHE MITALI MANISH | HMA |
| 3 | 19CO006 | ARVIND SUDARSHAN | Arvind |
| 4 | 19CO007 | BADVE SHRIDHAN SANJAY | Shr |
| 5 | 20CO301 | BHALCHIM PRIYA VISHWAS | Priya |
| 6 | 19CO009 | BHILARE KSHITIJ SHASHIKANT | Kshiti |
| 7 | 19CO010 | BHOSALE ATHARVA ABHAY | Abh |
| 8 | 20CO302 | BOROLE POURNIMA VIJAY | Pouri |
| 9 | 19CO011 | CHATANE SHREE ATUL | Shree |
| 10 | 19CO005 | CHAUHAN AMOGH | Amogh |
| 11 | 19CO012 | DABIR AISHWARYA SHARAD | Dabir |
| 12 | 19CO013 | DANDGE SHRIKANT ASHOK | Sanckge |
| 13 | 19CO015 | DEOKAR HRISHIKESH MARUTI | HR |
| 14 | 19CO016 | DESHPANDE SUDHANSHU SUBODH | S. Deshpande |
| 15 | 19CO017 | DEVKATE KARAN KRISHNATH | Kar |
| 16 | 19CO018 | DHOTE SAMIKSHA TILAKCHAND | Samiksha |
| 17 | 19CO019 | DHUMAL PRAJAKTA DADABHAU | Prajakta |
| 18 | 19CO020 | EKSAMBEKAR YASH SAGAR | Yash |
| 19 | 19CO021 | GADGE SAHIL NIVRUTTI | Sahil |
| 20 | 19CO022 | GADKARI GAURAV SUDHIR | Gad |
| 21 | 19CO023 | GAIDHANI PRAJWAL ASHOK | Prajwal |
| 22 | 20CO303 | GAIKWAD SAKSHI ATUL | Sakshi |
| 23 | 19CO024 | GAIKWAD UDAY VIJAYSINH | Uday |
| 24 | 20CO304 | GATKAL SHRUTI VISHNU | Shruti |
| 25 | 19CO025 | GHADGE INDRAJEET SUBHASH | Indra |
| 26 | 20CO305 | GHODAKE SHUBHAM SHIVAJI | Shubham |
| 27 | 19CO026 | GHUGE RUSHIKESH MADANRAO | Rushikesh |
| 28 | 19CO027 | GURSHAN SINGH | Gurshan |
| 29 | 18CO046 | Habib Pranav Prakash | Pranav |
| 30 | 19CO029 | HATEKAR AISHWARYA TANAJI | Aishwarya |
| 31 | 19CO030 | JADHAV KIRTI PRADIP | Kirti |
| 32 | 19CO031 | JAGTAP ATHARVA MAHESH | Atharva |
| 33 | 19CO032 | JAGTAP HRUTVIK SHAHAJI | HRUTVIK |
| 34 | 19CO033 | JAGTAP OMKAR DATTATRAY | Omkar |
| 35 | 19CO034 | JAGTAP PRATIK VINOD | Pratik |
| 36 | 19CO035 | JAGTAP SHREYA ATUL | S. Jagtap |
| 37 | 19CO036 | JAMBHULKAR TUSHAR RAJU | Tushar |
| 38 | 19CO037 | KADALE PRATHAMESH KAMALAKANT | Prathamesh |
| 39 | 19CO038 | KAKANI PRANAV ARVIND | Pranav |
| 40 | 19CO039 | KALASKAR ROHAN RAJENDRA | AB |

| | | | |
|----|---------|-----------------------------|-----------------------|
| 41 | 19CO040 | KAMBLE PRATIK MAHENDRA | <u>Pratik</u> |
| 42 | 19CO041 | KARMAN SINGH SETHI | <u>Pratik</u> |
| 43 | 19CO042 | KAWALE ANUSHKA ANIL | <u>Anushka</u> |
| 44 | 20CO308 | KHADE POOJA BALOO | <u>kp</u> |
| 45 | 19CO043 | KHADTARE ANURAG VIJAY | <u>Akhadatre</u> |
| 46 | 19CO044 | KHANDELWAL HARSH PRAMOD | <u>Harsh</u> |
| 47 | 19CO045 | KHEDKAR PRATIKSHA BALASAHEB | <u>Pratiksha</u> |
| 48 | 18CO031 | Kothawade Rushikesh Kishor | <u>Rushik</u> |
| 49 | 20CO306 | MAHAJAN ABHIJIT RAJENDRA | <u>R.K. Kothawade</u> |
| 50 | 19CO049 | MEHER SWANAND GURUNATH | <u>Meher</u> |
| 51 | 20CO307 | MOKALKAR RENUKA ASHOK | <u>Renuka</u> |
| 52 | 19CO051 | MULIK ABHISHEK SANJAY | <u>Abhishek</u> |
| 53 | 19CO052 | NIKAM RITESH SANJEEVAN | <u>RN</u> |
| 54 | 19CO053 | PANCH LAXMI MUKUND | <u>Laxmi</u> |
| 55 | 18CO040 | Patil Krishnakant Sanjay | <u>KPS</u> |
| 56 | 19CO054 | PAWAR ATHARVA SAMADHAN | <u>PA</u> |
| 57 | 19CO055 | PAWAR SHRUTI CHANDRAKANT | <u>Shruti</u> |
| 58 | 19CO056 | PINGALE PRATIK BAJIRAO | <u>Pratik</u> |
| 59 | 19CO057 | PRIYANSHU SHARMA | <u>Prishu</u> |
| 60 | 19CO058 | RAJPUT RUPESH BHUPENDRASING | <u>Rupesh</u> |
| 61 | 19CO059 | RAUT ATHARVA HEMANT | <u>RA</u> |
| 62 | 19CO060 | ROHAN DAYAL | <u>Rohan</u> |
| 63 | 19CO061 | SAGNIK ROY | <u>Soy</u> |
| 64 | 18CO051 | SALUNKE AKANSHA TUKARAM | <u>Akansha</u> |
| 65 | 20CO309 | SARDE SHRAVANI SHRIKANT | <u>Ss</u> |
| 66 | 19CO050 | SARODE MOHIT SUNIL | <u>MS</u> |
| 67 | 19CO062 | SHAIKH ZAKI AHMED KHALID | <u>Shaikh</u> |
| 68 | 19CO063 | SHARMA GUNJAN LAXMINARAYAN | <u>Gunjan</u> |
| 69 | 19CO008 | SINGH BHANU PRATAP | <u>BP</u> |
| 70 | 19CO004 | SUNNY ALEX | <u>Sunny</u> |
| 71 | 19CO065 | SYED SABA MUSTAFA | <u>Saba</u> |
| 72 | 19CO066 | TANVI PAIGUDE | <u>Tanvi</u> |
| 73 | 19CO067 | TATIYA YASH ASHOK | <u>YTA</u> |
| 74 | 19CO068 | THAKARE TEJAL VINAYAK | <u>Tejal</u> |
| 75 | 19CO069 | TILEKAR VIRAJ VAIBHAV | <u>Viraj</u> |
| 76 | 19CO028 | TIWARI HARSH | <u>Harsh</u> |
| 77 | 19CO070 | UDAY SHARMA | <u>USharma</u> |
| 78 | 19CO064 | VEDANT KISHOR SURYA WANSHI | <u>Vedant</u> |
| 79 | 19CO071 | WAGH MAHANT ISHWAR | <u>Mahant</u> |
| 80 | 19CO072 | YADNIK ABHILASH VIJAY | <u>Abhilash</u> |
| 81 | 19CO073 | ZOPE SHUBHAM MOHAN | <u>Shubham</u> |
| 82 | 19CO074 | ZOPE TANAY PRADEEP | <u>Tanay</u> |

V. N. K. K. K.
Faculty Sign

S. S. S.
HOD
H.O.D.
Computer Engg Dept
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Honorary Secretary

Dr. D. S. BORMANE

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Contributing to the welfare of society through quality education.

Mission

To produce Best Quality Computer Science Professionals by imparting quality training, hands on experience and value education.

To Strengthen links with Industry through partnerships and collaborative developmental works.

To attain self-sustainability and overall development through Research, Consultancy and Development Activities.

To extend technical expertise to other technical Institutions of the region and play a lead role in imparting technical education.

Date: 12/10/2022

To

Mr. Vikas Abnave

Ebsolute Technologies Pvt.Ltd, Pune.

Subject: Expert lecture on "Solidity Programming" for BE (Computer) Students.

Dear Sir,

Sharing your expertise thoughts on "Solidity Programming" with our BE Computer students on Wednesday, 12/10/2022 will be helpful to them. They have got the orientation for better understanding of the subject.

Looking forward for continuous association.

Regards,


Head
Department of Computer Engineering
H.O.D.
Computer Engg. Dept
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Tel : +91 20 2605 8587, 2605 7660, 2605 8342

URL : www.aiissmscoe.com Email : contact@aiissmscoe.com, principal@aiissmscoe.com

All India Shri Shivaji Memorial Society's,

College of Engineering,

Kennedy Road, Pune -411001

Department of Computer Engineering

(Industry Institute Interaction)

Feedback from Expert

Name of the Event: Expert Lecture on Solidity Programming

| | |
|---|--|
| Day and Date: | Wednesday and 12/10/2022 |
| Title of Training/ Session: | Solidity Programming |
| Type of Training/ Session: | Expert Lecture |
| Name of Resource Person/ Speaker with Address: | Mr. Vikas Abnave Ebsolute Technologies Pvt.Ltd, Pune. |
| Contact Details of Resource Person/ Speaker | 8668370611 |
| Topics Covered: | Basic for Solidity Programming, EVM, Smart Contract |
| Venue: | Room 440 |

Comments/ Feedback from Speaker:

Thank you for inviting
me for this Expert talk. This is opportunity to talk
about Solidity programming.

Vikas Abnave

Participant(s) Details: List is attached

Session Coordinator:

1. Name and Sign:

V Navale

Mrs. Vandana V. Navale

Session Organized By:

V Navale

Name of Staff: Mrs. Vandana V. Navale

Designation: Assistant Professor

Sign: V Navale



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Department of Civil Engineering
IEI Students Chapter

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

Report: Guest Lecture on "Celebration of Innovation week"

Date: 17/02/2023

Time: 3:00 PM

Venue: Seminar Hall

Total Number of Attendees :

1) Number of Students: 56

2) Number of faculty: 18

Mode of event: Offline/ Physical

Name of students in organizing committee:

Treasurer Team: Aditya Patil

Event Management Team: Janhavi Tirmake, Rutesh Shivsharan

Technical Team: Soham Joshi


Documentation Team: Hariom Birajdar

Media Team: Tejas Rokade

Dr. Kulkarni has contributed to various research & consultancy projects and is Nodal Officer to National Clean Air Program (NCAP), IIT Kanpur at NIT Silchar. He is working on a consultancy project on preparation of District Environment Plan for Dhemaji District of Assam and "Random inspection of hazardous waste inventory" for Central Pollution Control Board, New Delhi. He is also member of state level expert committee of Assam in implementing National Clean Air Program (NCAP).

Dr. Kulkarni served as Head of department earlier in Government Engineering College Banswara, Rajasthan where he established Environmental Engineering and Geotechnical Engineering laboratories under TEQIP III. Dr. Kulkarni was a vital members in the upgradation of academic and administrative work of the institute. At present he is involved in green policy framing of NIT Silchar.

In regard to the subject of "Remediation of Lead-Acid battery waste water and sludge," Sir spoke about problem-centric science. He described the devastation that waste water and sludge do to the environment and civilization. Reusing that water for brick synthesis can lessen the potential waste issue. Sir spoke into great detail about the brick synthesis process. His depth of knowledge is advantageous to students.


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- Mission: -**
- M1:** Provide quality education to develop competent Civil Engineers.
 - M2:** Create awareness among students for sustainable development.
 - M3:** Cultivate the leadership qualities for becoming successful entrepreneurs.



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Department of Civil Engineering

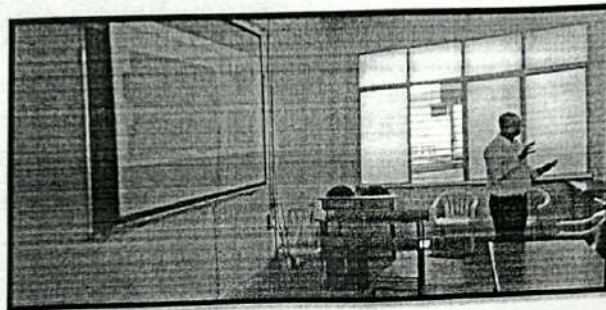
IEI Students Chapter

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

Photos of the event with caption



Dr Kulkarni delivering lecture



Dr Kulkarni delivering lecture



Faculties and students attending the lecture.

M S Chiwande
Faculty coordinator
IEI Students Chapter

Dr. S R Parekar
Students Chapter Head
Civil Engg. Department

Dr. P B Nangare
Head of the Department
Civil Engg. Department

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Department of Civil Engineering
IEI Students Chapter

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

Report: Guest Lecture on "Life and times of Civil Engineers"

Date: 30/01/2023

Time: 3:00 PM

Venue: Seminar Hall

Total Number of Attendees :

1) Number of Students: 72

2) Number of faculty: 18

Mode of event:

Name of students in organizing committee:

Treasurer Team: Aditya Patil

Event Management Team: Janhavi Tirmake, Rutesh Shivsharan

Technical Team: Soham Joshi

Documentation Team: Hariom Birajdar

Media Team: Tejas Rokade

Mr. Anil Attavar sir has more than 35 years of experience in the private and public sector, in Construction and Project Management of several mega projects of national importance. He is a Former Addl General Manager Engineers India Ltd., (a public sector engineering consultancy organization under Ministry of Petroleum & Natural Gas, Govt. of India), he has handled a wide variety of projects including offshore platforms, submarine pipelines, bridges, jetties, cross-country high-pressure gas pipelines and urea prilling towers. He headed the Project Team in EIL for the 'first of its kind in India', construction of Underground Crude Oil Rock Caverns at Visakhapatnam, Mangalore, and Udupi. And many more such experiences.

Sir started his lecture by introducing the motivating factors civil engineers have while working in the industry. He also throws light on what effect of civil engineer's work have on the society and what are the responsibilities of civil engineers toward the society. Sir told students what are the opportunities in industry for internship, he also guided students to work sincerely and try to accept challenges during their internship duration. Students heard from Sir about the difficulties they will encounter working in the field and how to prepare for those difficulties. Sir also laid out for the learners the qualifications required to get a job and succeed in their careers in the field like, Team Management, Leadership, field management, Project scheduling, Task management, Meeting management, negotiation skills and problem solving etc. At the end of the lecture sir showed some of the pictures of the work he undertook and explained in details what were the difficulties he faced during

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Department of Civil Engineering IEI Students Chapter

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completion of those projects. The students found his speech to be very inspirational, and they will undoubtedly benefit from his extensive knowledge.


Flyer of the event



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The Institution of Engineers (India)
in association with
AISSMS COLLEGE OF ENGINEERING, PUNE
Cordially invites all for

GUEST LECTURE under IEI Student Chapter
January 30, 2023 | 3:00 pm
Life and Times of a Civil Engineer

Speaker

ANIL ATTAVAR
A Civil Engineer, has 35 years experience in the private and public sector, in Construction and Project Management of several mega projects of national importance.



The Event Venue:
CITP HALL

Department Vision:-
• Nurture the talent in civil engineers to work as global leaders for development of society

Department Mission:-
• Provide quality education to develop competent civil engineers
• Create Awareness among students for sustainable development
• Cultivate the leadership qualities for becoming successful entrepreneurs

PEOs of Department
1.To produce civil engineering's who will be fully aware of the impact of their work on society, both nationally and globally.
2.To achieve a high level of technical expertise to succeed in civil engineering practice and research.
3.To develop civil engineers who acquire professionalism, leadership and commitment to professional development through lifelong learning.

MS. Jhanavi Tirmake
Student Co-ordinator
Civil Department

Mr. Rutesh Shivsharan
Student Co-ordinator
Civil Department

Mr. Siddharth Mandale
Joint General Secretary
Civil Department

Mr. Kalpesh Patil
General Secretary
Civil Department

REGARDS


M.S. Chiwande
Faculty Co-ordinator
Civil Department

Dr. S.R. Parekar
Student Chapter Head
Civil Department

Dr. P.B.Nangare
Head
Civil Department

Dr. D.S. Bormane
Principal

Mission: - M1: Provide quality education to develop competent Civil Engineers.
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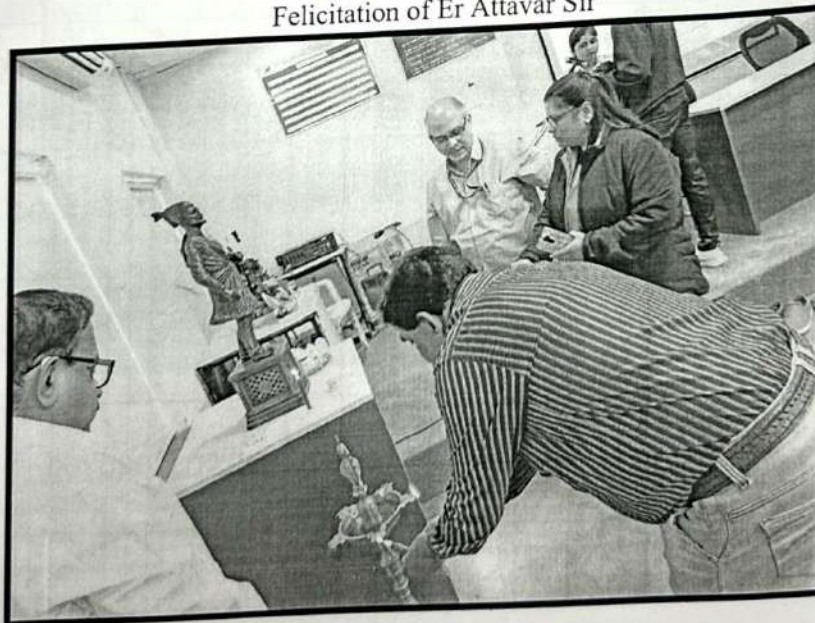
Department of Civil Engineering IEI Students Chapter

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

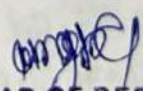
Photos of the event with caption



Felicitation of Er Attavar Sir



Lightening of the lamp.


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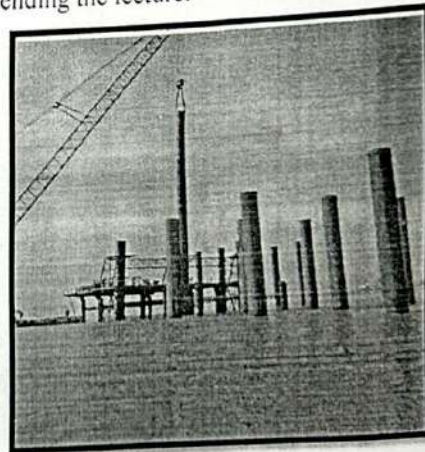
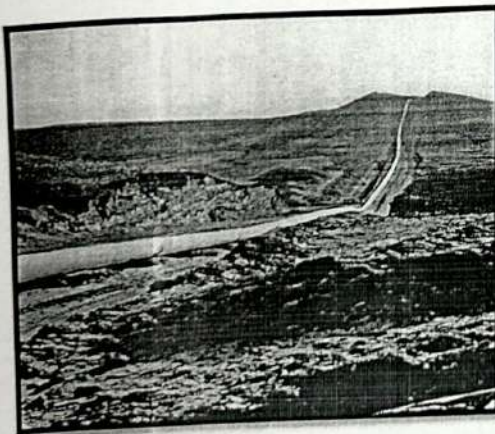
Department of Civil Engineering

IEI Students Chapter

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Faculties and students attending the lecture.



Glimpses of the Projects completed by Er. Attavar during his tenure.

M S Chiwande
Faculty coordinator
IEI Students Chapter

Dr. S R Parekar
Students Chapter Head
Civil Engg. Department

Dr. P B Nangare
Head of the Department
Civil Engg. Department

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Date: 25/4/2023

NOTICE

Class: T. E. Civil (A & B div)

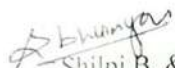
The students of T.E.(Civil) are hereby informed that, site visit of **Design of Reinforced Concrete Structures**, is arranged at Sai Avishkar, at DSK Vishwa road, Dhyari, Pune

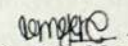
T.E. (Civil) A & B - Friday-28/04/2023

All Students must be reported at **8:30am** sharp near Airplane.









STUDENTS MUST BE WITH Uniform, I-CARD, Shoes, & Cap, Water bottle, etc.

The attendance is Mandatory to all students.

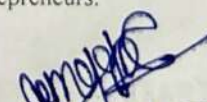

Shilpi B. & P.R. Satarkar
Subject Incharge – DRCS


Dr. P.B. Nangare
Head of Department

Copy to Notice Board
Copy to concerned T.E. faculty for information please.

| | | |
|------------------|---|---|
| Dr. U R Awari | : |  |
| Dr. S R Parekar | : |  |
| S SBhuinyan | : |  |
| P R Satarkar | : |  |
| Dr. M V Waghmare | : |  |
| S A Chavan | : |  |
| K D Kashid | : |  |
| A A Manchalwar | : |  |

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Ref./ 612 /Date: 25/04/2023

To,

Suyog Anjani

Avishkar Associates,

Pune.

Subject: Permission for Educational Visit.

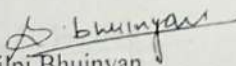
Respected sir,

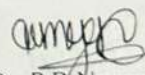
As a part of the curriculum of Design of Reinforced Concrete Structures of T.E. Civil Engineering degree course of the Savitribai Phule Pune University, the students of this class are required to get information visit Detailing of Reinforcement of Slab, Beam, Column and Footing on site to get onsite working experience of Various Process.

This college is running a degree course in Civil Engineering and there are about 160 students in T.E. Civil (A & B Div) Current academic year 2022-2023, Term II.

We shall be obliged if you permit our 160 students for site visit on 28/04/2023. This Visit will be accompanied by 8 Faculty member at the time of visit. This visit will have only an academic purpose.


Thanking you in anticipation.


Shilpi Bhuinyan
P R Satarkar
Subject In charge DRCS


Dr. P B Nangare
Head Civil Engg Department

Received & Visit
Conducted on 28/4/23
Pragati

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Department of Civil Engineering

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

Ref./ 692 /Date: 28/04/2023

To,

Suyog Anjani

Avishkar Associates

Pune.

Subject: - Thanks giving letter.

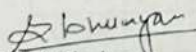
Respected Sir,

It gives us immense pleasure in thanking you for allowing us to visit your site at "Sai Avishkar", Dhyari, Pune. for the subject of Design of Reinforced Concrete Structures to Third Year Civil Engineering students. Your site information was very beneficial to our students in updating their technical knowledge in the subject.

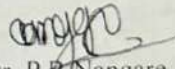
We request for your similar co-operation and synergy in future. We are sure, with your active co-operation we will be able to motivate and inspire our students.

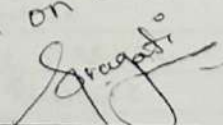
Thanking you.

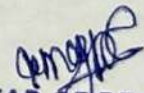
Yours faithfully,


Shilpi Bhuinyan

P R Satarkar
Subject In charge DRCS


Dr. P. B. Nangare
Head Civil Engg Department

Received & Visit
Conducted on 28/4/23



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DEPARTMENT OF CIVIL ENGINEERING
UNDERTAKING

We the following students of TE (Civil A Div.) hereby state that we all shall strictly follow the instructions of concerned faculties during this visit

Friday 25/04/2023 at 8:30 am.

We shall obey the instructions of teachers during journey, during the visit at the site stay at the respective destination. In case any of us does not follow the instructions of faculties and take any step without their, or against their instruction, or without their knowledge, at his/her own will leading to any mishap, then he/she will be solely responsible for his/her act and the consequences thereafter.

| Sr. No. | Roll No. | Name of Student | Signature |
|---------|-----------|----------------------------|------------|
| ✓1. | 21CV313 | Saurabh Shyam Gayke | Saurabh |
| ✓2. | 20CV027 | Suyash Balasaheb Dorekar | Suyash |
| ✓3. | 20CV029 | Prjwal Sunil Dhurmal | Prjwal |
| ✓4. | 20CV028 | Shubham Ravindra Dhonawade | Shubham |
| ✓5. | 20CV010 | Sanjot Nitin Beldar | Sanjot |
| ✓6. | 20CV012 | Pruthom Pradeep Bhaleghare | Pruthom |
| ✓7. | 20CV047 | Tejas Vishwas Jadhav | Tejas |
| ✓8. | 20CV015 | Nilanjana K. Bhawani | Nilanjana |
| ✓9. | 20CV054 | Pratik Balu Kale | Pratik |
| ✓10. | 20CV008 | Barve Ajinkya Mashe | Barve |
| ✓11. | 20CV024 | Kaustubh Rajesh Chougule | Kaustubh |
| ✓12. | 20CV046 | Aishwari Jagtap | Aishwari |
| ✓13. | 21CV309 | Sahil Chafle | Sahil |
| ✓14. | 21CV303 | Sreyas Bankar | Sreyas |
| ✓15. | 21CV302 | Gaurav Bankar | Gaurav |
| ✓16. | 20CV013 | Bharmate Manoj NANAJE | Bharmate |
| ✓17. | 20CV007 | Bhaskar Prasad | Bhaskar |
| ✓18. | 20CV011 | Bhadare Himanshu Dilip | Bhadare |
| ✓19. | 20CV057 | Pavith Pooval Kapure | Pavith |
| ✓20. | 20CV041 | Deevayani S. Genap | Deevayani |
| ✓21. | 2021CV315 | Nipul Guase | Nipul |
| ✓22. | 20CV058 | Dhanushree S. Kalekar | Dhanushree |
| ✓23. | 20CV044 | Ingale Prashant | Ingale |
| ✓24. | 20CV014 | Rohan Bharchan | Rohan |
| ✓25. | 20CV042 | Mandar Hue | Mandar |
| ✓26. | 20CV0306 | Tejas Bhate | Tejas |

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| | | | |
|-------|---------|-----------------------------|------------------------|
| X 27. | 20CV046 | Jadhav Tejas | IRB. |
| ✓ 28. | 20CV049 | Mounham Jawalkar | MS |
| ✓ 29. | 21CV307 | Shrawani Bhosale | Bhosale |
| ✓ 30. | 21CV311 | Gauri Chavan | Chavan |
| ✓ 31. | 21CV314 | Arantika Ghom | Ghom |
| ✓ 32. | 20CV004 | Arbaz Mapkar | Mapkar |
| ✓ 33. | 20CV036 | Yash Gawali | Gawali |
| ✓ 34. | 20CV062 | Yashwant Khanolkar | Khanolkar |
| 35. | 20CV055 | Yuvraj Kale | Kale |
| ✓ 36. | 20CV002 | Deepang. Adhav | Deepang |
| ✓ 37. | 21CV301 | Sakshi M. Akhade | Akhade |
| ✓ 38. | 20CV063 | Kalpesh Khare | Khare |
| ✓ 39. | 20CV023 | Chinmay Chitte | Chitte |
| ✓ 40. | 20CV001 | Viraj Khairnar | Khairnar |
| ✓ 41. | 20CV004 | Trupti Kolate | Kolate |
| X 42. | 20CV051 | Soham Joshi | Joshi |
| X 43. | 20CV053 | Devashish Kale | Kale |
| ✓ 44. | 20CV050 | Kamthe Sahil | Sahil |
| ✓ 45. | 20CV032 | Dake Tushar | Tushar |
| ✓ 46. | 20CV005 | Viraj Adu | Adu |
| ✓ 47. | 20CV040 | Vedant Gungul | Gungul |
| ✓ 48. | 20CV003 | ADIL - AHMAD - DAR | ADIL |
| 49. | 20CV043 | Ashishkumar Ingale | Ingale |
| ✓ 50. | 21CV308 | Harion Shirdarshan Birajdar | Birajdar |
| ✓ 51. | 21CV304 | Sneha R. Bhalshankar | Bhalshankar |
| 52. | 20CV060 | Shambhuraaj Kesekar | Kesekar |
| ✓ 53. | 21CV310 | Aditya V. Javim | Javim |
| 54. | 21CV020 | Suyash Chavan | Chavan |
| ✓ 55. | 20CV034 | Komal Gargam | Gargam |
| ✓ 56. | 20CV038 | Vaishnavi Gadghare | Gadghare |
| X 57. | 20CV021 | Aarjan Chavade | Chavade |
| X 58. | 20CV016 | Nikita Bhosale | Bhosale |
| X 59. | 20CV019 | Rohit Chavan | Chavan |
| X 60. | 20CV052 | Sansak Kala | Kala |
| X 61. | | Chinab | |
| X 62. | 20CV050 | Jaybave Sakshi | Sakshi |
| ✓ 63. | 21CV305 | Nitya N. Bhaskar | Bhaskar |
| ✓ 64. | 21CV312 | Pravinraj B. Desai | Desai |
| ✓ 65. | 20CV059 | Kaushal M. Shinde | Shinde |

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

UNDERTAKING

We the following students of TE (Civil B Div.) hereby state that we all shall strictly follow the instructions of concerned faculties during this visit.....


..... on Friday 23/04/2019 at 8:30 am.

We shall obey the instructions of teachers during journey, during the visit at the site stay at the respective destination. In case any of us does not follow the instructions of faculties and take any step without their, or against their instruction, or without their knowledge, at his/her own will leading to any mishap, then he/she will be solely responsible for his/her act and the consequences thereafter.

| | | | |
|-----|--------------------|-----------------------------|-------------|
| 1. | 21CV316 | Nagaogje Bhagwan mayan | |
| 2. | 21CV329 | Omkar Thambare | |
| 3. | 21CV321 | Somyam Patil | |
| 4. | 21CV319 | Himanshu patil | |
| 5. | 20CV075 | Abhishek more | |
| 6. | 20CV127 | Akshay yadav | |
| 7. | 20CV126 | Siddhesh warule | |
| 8. | 20CV120 | Yashvardhan Todmal | |
| 9. | 20CV066 | Kumbhar Shubham | |
| 10. | 20CV071 | Abhay Mane. | |
| 11. | 20CV091 | Patil Shubham. | |
| 12. | 20CV202 | Jadhavi Ganesh | |
| 13. | 20CV090 | Shivam Patil | |
| 14. | 20CV101 | Sahil R. Sapkal | |
| 15. | 20CV117 | Shubham Thakurkar | |
| 16. | 20CV113 | Ashish Sridhargan | |
| 17. | 20CV106 | Aniket Shinde | |
| 18. | 20CV079 | Nikam Aditya Havis | |
| 19. | 20CV087 | Patil Dhruv | |
| 20. | 20CV108 | Shreyas Naiknaware | |
| 21. | 20CV111 | Shrikant Somkar | |
| 22. | 20CV114 | Ashtekar Jatin | |
| 23. | 20CV116 | Shan S. S. S. S. | |
| 24. | 20CV121 | Raibhav More | |
| 25. | 21CV325 | Shubham C. Shingave | |
| 26. | 21CV323 | Tejas Lokade | |
| 27. | 21CV318 | Chetan B. Pardihi | |
| 28. | 21CV330 | Rashi Ugalkar | |

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AISSMS'S COE, PUNE-1.

| | | | |
|-----|--------------------|--------------------------------|----------------------|
| 29. | 20W118 | Kunal Satish Thorat | Chakr |
| 30. | 21CV320 | Pratikesh Ramesh Patil | Tatili |
| 31. | 21CV065 | Sakshil Kulkarni | Kulkarni |
| 32. | 21CV328 | Aishwariya Hemant Tanpure | Yash |
| 33. | 20CV069 | Matasandra R. Mali | M.Y. Mali |
| 34. | 20CV098 | Shraddha S. Nawale | Shraddha |
| 35. | 21CV327 | Shrawani Suryaneshi | Shrawani |
| 36. | 21CV330 | Shreya Yadav | Shreya |
| 37. | 20CV003 | Jangire Shaikh | Pang |
| 38. | 20CV070 | Shri Siddharth Mandale | Shri |
| 39. | 20CV068 | Akash Magesh | Akash |
| 40. | 20W077 | Pranav Nalle | Pranav |
| 41. | 21CV201 | Nikhil Dhavale | Nikhil |
| 42. | 20CV | Pravali Acharya | Pravali |
| 43. | 20CV093 | Aditya Phule | Aditya |
| 44. | 20CV069 | Pravali Acharya | Pravali |
| 45. | 20CV072 | Saham Singhphade | Saham |
| 46. | 20CV097 | Neha Londhe | Neha |
| 47. | | | |
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 HEAD OF DEPARTMENT
 CIVIL ENGINEERING
 AISSMS's COE, PUNE-1.



AISSMS
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Civil Engineering

Vision: Nurture the talent in Civil Engineers to work as global leaders for development of society

Notice

Date: 09/11/2022

As per the curriculum of SPPU, guest lecture for audit course "Stress management by Yoga" is arranged on 9th November 2022, 10:30 am at Civil Engineering Seminar hall (R. No. 433).

Attendance is compulsory.

Dr. P.B Nangare

Head of the Department

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Mission:

- Provide quality education to develop competent Civil Engineers
- Create awareness among students for sustainable development
- Cultivate the leadership qualities for becoming successful entrepreneurs



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COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Recognized by
Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University
and recognized 2(f) and 12(B) by UGC (Id.No. PU / PN/ Engg. / 093 (1992))
Accredited by NAAC with 'A+' Grade



Department of Civil Engineering

Date: 09.11.2022

To
Mr. Sudhakar Shetty

Subject: Thanks letter

Dear Sir/ Madam,

We sincerely wish to thank you for accepting our invitation and delivering an interactive session on "Stress management by Yoga" organised by the Department of Civil Engineering in association with NSS Cell of AISSMS COE on 09th Nov 2022.

Looking forward for same cooperation from you

Thank You!

Prof. P R Modak

Event Coordinator

Dr. P B Nangare

Head, Department of Civil Engg

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CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

Received

Sudhakar Shetty
Yoga Instructor.



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(Accredited by NAAC with grade A+)

Vision: Nurture the talent in Civil engineering to work as global leader for development of society



Civil Engineering Department

Event Attendance

Guest lecture on

"Stress management by Yoga"

| Sr No. | Roll No. | Name of Students | Sign |
|--------|----------|-------------------------|-------------------------|
| 1 | 19CV038 | Janhvi Jadhav | Janhvi Jadhav |
| 2 | 20CV322 | Ajay Koli | Ajay Koli |
| 3 | 19CV021 | Mrunal Desale | Mrunal Desale |
| 4 | 21CV311 | Gauri B. Chavan | Gauri B. Chavan |
| 5 | 21CV301 | Atharve Salgani | Atharve Salgani |
| 6 | 21CV302 | Gaurav Bankar | Gaurav Bankar |
| 7 | 21CV313 | Saurabh Gayke | Saurabh Gayke |
| 8 | 20CV029 | Prajwal Dhume | Prajwal Dhume |
| 9 | 20CV003 | ADIL - AHMAD - DAR | ADIL - AHMAD - DAR |
| 10 | 21CV309 | Sahil Chafle | Sahil Chafle |
| 11 | 21CV303 | Sreyas Bankar | Sreyas Bankar |
| 12 | 20CV020 | Suyash Chavan | Suyash Chavan |
| 13 | 20CV014 | Rohan Bharekar | Rohan Bharekar |
| 14 | 20CV012 | Pratham Bhaleghare | Pratham Bhaleghare |
| 15 | 20CV024 | Kaustubh Chougale | Kaustubh Chougale |
| 16 | 20CV002 | Demang Adhikari | Demang Adhikari |
| 17 | 20CV044 | Engate Prashant | Engate Prashant |
| 18 | 20CV033 | Kunal Craple | Kunal Craple |
| 19 | 20CV004 | Ashwaz Mapkar | Ashwaz Mapkar |
| 20 | 20CV046 | Banket Joshi | Banket Joshi |
| 21 | 20CV312 | Bhavin Raj Desai | Bhavin Raj Desai |
| 22 | 20CV308 | Harion Birajdar | Harion Birajdar |
| 23 | 20CV049 | Manthan Jawalkar | Manthan Jawalkar |
| 24 | 20CV042 | Mandor R. Hire | Mandor R. Hire |
| 25 | 20CV041 | Devayani Gurap | Devayani Gurap |
| 26 | 20CV061 | Vijay Khairnar | Vijay Khairnar |
| 27 | 20CV058 | Dhanashree Karlekar | Dhanashree Karlekar |
| 28 | 21CV305 | Niyati Bhaskar | Niyati Bhaskar |
| 29 | 20CV063 | Kalpesh Khane | Kalpesh Khane |
| 30 | 20CV068 | Taapthi Kolate | Taapthi Kolate |
| 31 | 20CV059 | Kaushal Shirde | Kaushal Shirde |
| 32 | 21CV304 | Shrawani Bharat Bhosale | Shrawani Bharat Bhosale |
| 33 | 20CV023 | Chinmay Chitte | Chinmay Chitte |
| 34 | 21CV314 | Awantika Ghorm | Awantika Ghorm |
| 35 | 21CV306 | Tejas S. Bhate | Tejas S. Bhate |
| 36 | 21CV310 | Aditya V. Chavan | Aditya V. Chavan |
| 37 | 21CV309 | Sheha Balshankar | Sheha Balshankar |
| 38 | 20CV040 | Vedant Gunjar | Vedant Gunjar |
| 39 | 20CV043 | Ashish Kumar Ingle | Ashish Kumar Ingle |

M1: Provide quality education to develop competent civil engineers.

M2: Create awareness among students of sustainable development.

M3: Cultivate the leadership qualities for becoming successful entrepreneurs.

HEAD OF DEPARTMENT

CIVIL ENGINEERING

AISSMS COE, PUNE

REGISTRATION: Registration is FREE

VENUE: Main Auditorium,
College of Engineering
Shivajinagar, PUNE

Bharat Ratna M. Vishveshwarya
5th IGS Pune Annual Oration

By
Dr. Sunil S. Basarkar

CHIEF GUEST
Dr. Pramod Vitkar (Director, JSPM Group)

Saturday, 3rd September 2022
11 am - 12.30 pm

REGISTRATION FORM

1. Name: _____
2. Designation: _____
3. Organization: _____
4. Mailing address: _____
5. Member of IGS _____
6. E-mail: _____
7. Contact No. _____

Date:

Signature of Applicant

PATRONS:

Prof. M. S. Sutaone

Director, COEP Tech

Dr. M. J. Rathod

Dy. Director, COEP Tech

Prof N. K. Samadhiya

President, IGS

Prof. J T Shahu

Hon Secretary, IGS

Dr. B. M. Dawari

HoD, Dept. of Civil Engg, COEP Tech

Convenor:

Er. Vikas S. Patil

Chairman, IGS Pune

Dr. S. M. Nawghare

Treasurer, IGS Pune

IGS COMMITTEE

Vice Chairman

Dr. Krishnaiah Chevva

Past Chairman

Er. Ramesh Kulkarni

Hon. Secretary

Prof (Mrs) Suman Jain

Jt. Secretary

Er. Annapoorani Iyer

Hon. Treasurer

Dr. R. D. Nalawade

Members

Dr. S.S Bhosale
Dr. N. A. Hedao
Dr. R.S Dalvi
Dr.K.K Tripathi
Er. Vidya Joshi
Er. Deepali Junagade
Er. Sunil Bhavsar
Dr. Raviraj Sorate
Er. Shailendra Banne
Er. Deepali Kulkarni

Regd. Office:
IGS Pune Chapter
C/o Dr. S. M. Nawghare
Geotechnical Engineering Division,
Department of Civil Engineering,
COEP Technological University,
Shivajinagar, PUNE 411 005
Contact. igspunechapter04@gmail.com
+91-83697 57735; +91-20-2550 7217
www.igspune.in



IGS PUNE CHAPTER & COEP TECH
HEARTILY WELCOMES ALL

Bharat Ratna M. Vishveshwarya
5th IGS Pune Annual Oration
SATURDAY, 3rd September 2022

**"GEOTECHNICAL AND FOUNDATION
CHALLENGES FOR
INFRASTRUCTURAL PROJECTS"**



Delivered by
Dr. Sunil S. Basarkar
General Manager (Geotechnical),
AFCONS, Mumbai

Organized by
INDIAN GEOTECHNICAL SOCIETY
Pune Chapter

INDIAN GEOTECHNICAL SOCIETY, Pune Chapter

IGS Pune Chapter was formed in May 2003 and was formally inaugurated on 03rd April 2004. It has a membership of 100 plus as on date. IGS, Pune has been instrumental in organizing many seminars and workshops since its inception. It is registered under Societies Act 1860, bearing registration certificate No. AH1308/2014/Pune dated 22/07/2014 and under public charitable trust act 1950 registration no. F46367/Pune dated 13/11/2014.

It has organized 50th IGC 2015 at COE, Pune during 17th to 19th December 2015 and received **Appreciation Award** for successfully organizing IGC-2015, at IGC-2016 held at IIT Madras, Chennai.

During IGC-2015, IGS Pune initiated 1st IGS ANNUAL ORATION as a mark of tribute to India's & COEP's greatest son, Bharat Ratna M. Vishveshwarya for his contributions to Humankind.

Bharat Ratna M. Vishveshwarya

Sir Mokshagundam Vishveshwarya (also Sir MV, M Vishveshwarya) was one of the greatest engineer the country has produced. He was also the Diwan of Mysore during the years between 1912 to 1918. Vishveshwarya was really a 'Bharat Ratna' Jewel and it is no wonder that the Government of India bestowed on him the highest honour of the country, Bharat Ratna 1955.

Vishveshwarya lost his father at an early age. He was therefore brought up by his uncle Ramayya who spared no effort in giving his nephew the best possible education. Vishveshwarya stood first among the successful candidates of the B.A. examination from the Central College, Bangalore which was then affiliated to the University of Madras. This enabled him to secure the scholarship of the Mysore Government to pursue further studies in Engineering at Poona. He took his degree in Engineering in 1884 securing a first class and winning the much coveted award, the James Berkeley Prize. This enabled him to join the Public Works Department of the Government of Bombay as Assistant Engineer. He retired from the service of Bombay Government as Superintending Engineer in 1908.

Vishveshwarya showed his brilliance by introducing what was known as the Block System of Irrigation. His talents were recognized by persons like Lord Kitchener, the Commander-in-Chief of India and Lord Sydenham the Governor of Bombay, when they saw the Khadakwasla Reservoir at Poona built as per the new innovation introduced by Vishveshwarya.

The services of Vishveshwarya were used by the Government of Hyderabad to control the floods of the Musi River, which caused immense damage to life and property of the city of Hyderabad in 1908. The Hyderabad Government implemented the recommendations of Vishveshwarya and saved the city of Hyderabad from the scourge of annual floods. Again in 1922 his services were utilized while drawing up the drainage scheme to Hyderabad city.

Vishveshwarya was the maker of modern Mysore. As the Dewan of Mysore during the years 1912 to 1918 he initiated industrialization of Mysore by starting the Mysore Iron and Steel Works at Bhadravati. Earlier as the Chief Engineer of the Public Works Department of the Government of Mysore, he was responsible for the construction of a dam across the river Cauvery. This dam known as Krishnaraja Sagar Dam and the famous Brindavan Gardens attached to it are well known throughout the country and they stand testimony to the engineering skill and aesthetic sense of Vishveshwarya.

Vishveshwarya was the first to realize the importance of planning. His ideas on planning and industrialization of the country caught the fancy of no less a person than Pandit Jawaharlal Nehru. Speaking at a function held at Bangalore to honour Vishveshwarya on his hundredth birthday Nehru said that Vishveshwarya was a dreamer, thinker and a man of action and that the country was full of memorials of the work done by him. Vishveshwarya died on 14th of April, 1962 at the age of 101.

Dr. Sunil S. Basarkar

is working as General Manager in Afcons Infrastructure Limited, Mumbai and is Head of a specialized Geotechnical engineering design group engaged in geotechnical investigations, pile constructions, deep retaining structures, ground improvements, drilling, grouting and variety of geotechnical and tunnel engineering involved in Land, Marine and infrastructural EPC projects.



He had been profusely involved in Marine, Tunnelling as well as Elevated as well Underground structures within India and abroad.

He is a graduate in Civil Engineering from NIT Rourkela, post-graduate in Geotechnical Engineering from College of Engineering, Pune and PhD in Pile foundations from IIT Bombay.

He has field experience of 18 years in areas of geotechnical engineering with infrastructural organizations in addition to Academic and Research experience of 16 years.

His publications includes papers in Journals and Conference proceedings which are 56.

He is Fellow of several professional organizations like The Institution of Engineers (India), Indian Geotechnical Society, and Indian Institute of Bridge Engineer. He is National Executive Committee Member, Deep Foundations Institute of India, and Presently Editor, Deep Foundations Institute Journal (USA).

5th BHARAT RATNA M. VISVESHWARAYA ANNUAL ORATION (2022-23)

The oration was delivered by Dr. Sunil S. Basarkar, General Manager (Geotechnical), AFCONS, Mumbai on "GEOTECHNICAL AND FOUNDATION CHALLENGES FOR INFRASTRUCTURAL PROJECTS" on Saturday, 3rd September 2022 at College of Engineering Pune (offline).

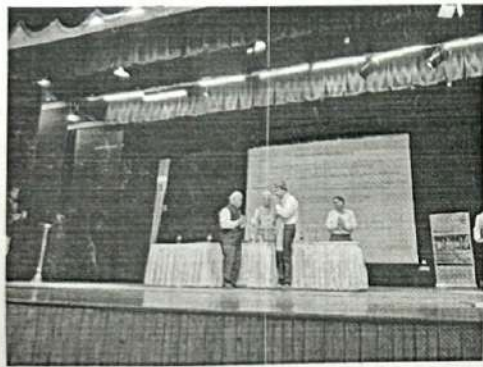
Chief Guest was Dr. P P Vitkar, Director, JSPM Group and also M Tech Guide to Dr. Basarkar at COEP.

Total no. of participants for the event : 180

(students, research scholars, professionals from industry).

Event was sponsored by -J Kumar Infraprojects P. Ltd.

Dr. Basrkar Sir discussed on Geotechnical challenges on 3 projects: Kolkata metro, Volta bridge in Ghana, and the famous Chenab River Bridge project.



Group Photo - Organizing Team



Felicitaton of Dr. Barakar by Er. Ramesh Kulkarni

Dr. R D Nalawade

Co-ordinator

(Subject Incharge -FE), BE (C)

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

RDN

**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY
COLLEGE OF ENGINEERING, PUNE
Academic Year – 2022-23 (TERM – I)
Civil Engineering Department**

**Industry Expert Talk on Geotechnical and Foundation Engineering Challenges Infrastructural Projects by
Sunil Basirkar, AFCONS Infrastructure Limited, Mumbai**

Day : Saturday

Date : 3/9/2022

Time : 10 to 1

Class: B.E. Civil (A)

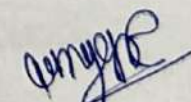
| SN | Roll No. | Name of Student | Sign |
|----|----------|----------------------------------|-------------------|
| 1 | 16CV103 | Gholap Sahil Vishwanath | |
| 2 | 16CV112 | Ambhore Suyog Sudhakar | |
| 3 | 18CV001 | Kandesar Abhijit Shantaram | |
| 4 | 18CV005 | Aman Mahesh Pidurkar | |
| 5 | 18CV016 | Bhoi Chirag Ravindra | |
| 6 | 18CV018 | Bidawe Rushikesh Suresh | |
| 7 | 18CV044 | Jahagirdar Shubhankar Shashikant | <i>Jahagirdar</i> |
| 8 | 18CV025 | Deshmukh Sarth Vijayrao | |
| 9 | 19CV001 | Abhay Singh | |
| 10 | 19CV002 | Ajabe Yash Vijay | |
| 11 | 19CV003 | Ambike Sanjeevani Atul | |
| 12 | 19CV004 | Atharv Harpale | |
| 13 | 19CV005 | Badave Atharv Prasad | |
| 14 | 19CV006 | Bagul Prasad Devanand | <i>PR</i> |
| 15 | 19CV007 | Bhadekar Yash Anil | |
| 16 | 19CV008 | Bhagat Mokshada Abhay | |
| 17 | 19CV014 | Bodhe Yash Santosh | |
| 18 | 19CV017 | Chaudhari Saurav Sandip | |
| 19 | 19CV018 | Chitale Shantanu Shrikant | |
| 20 | 19CV020 | Desai Gaurav Rajaram | |

[Signature]
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CIVIL ENGINEERING
AISSMS's COE, PUNE-1.**

| | | | |
|----|---------|-----------------------------|----------------|
| 21 | 19CV021 | Desale Mrunal Sharad | <i>Desale</i> |
| 22 | 19CV022 | Deshmukh Aniruddha Virendra | |
| 23 | 19CV023 | Deshmukh Prajwal Balwant | |
| 24 | 19CV024 | Deshmukh Pranav Mahesh | <i>Prajwal</i> |
| 25 | 19CV027 | Dhumal Ruturaj Rajesh | |
| 26 | 19CV028 | Fulaware Kedar Sudhir | |
| 27 | 19CV029 | Gadekar Komal Dipak | <i>Komal</i> |
| 28 | 19CV030 | Gadpe Omkar Maroti | <i>Gadpe</i> |
| 29 | 19CV031 | Gagandeep Kour | |
| 30 | 19CV032 | Ghavate Pranit Dadabhau | |
| 31 | 19CV033 | Ghodake Nikhil Sanjay | |
| 32 | 19CV034 | Gudhe Sarthak Sanjay | |
| 33 | 19CV035 | Gulhane Harsh Charudatta | <i>Gulhane</i> |
| 34 | 19CV039 | Jadhav Pranav Dilip | |
| 35 | 19CV040 | Jagtap Gauri Khanderao | |
| 36 | 19CV041 | Jagtap Rushikesh Avinash | |
| 37 | 19CV043 | Jamdhade Aasta Chandravilas | |
| 38 | 19CV044 | Kamble Shreya Babasaheb | |
| 39 | 19CV045 | Katkar Ankit Kishor | |
| 40 | 19CV046 | Katke Gaurav Rajesh | |
| 41 | 19CV047 | Kautkar Snehal Vishwas | <i>Kautkar</i> |
| 42 | 19CV048 | Ket Harshvardhan Shivram | |
| 43 | 19CV049 | Kharmale Omkar Pravin | |
| 44 | 19CV050 | Khedkar Ashish Rajendra | |
| 45 | 19CV010 | Bhoite Abhishek Rajendra | |
| 46 | 19CV011 | Bhokare Rohit Kailas | |
| 47 | 19CV012 | Bhosale Shreya Sudhir | |
| 48 | 19CV013 | Bilapatte Krishna Sunil | |
| 49 | 19CV015 | Borse Gaurav Shivaji | |
| 50 | 19CV016 | Bothe Pavan Bajirav | |

[Signature]
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| | | | |
|----|---------|-------------------------------|-----------|
| 51 | 19CV025 | Deshmukh Shivraj Macchindra | |
| 52 | 19CV026 | Dhande Jatin Bhaskar | |
| 53 | 19CV037 | Gurav Pranav Pramod | |
| 54 | 19CV038 | Jadhav Janhvi Bhima | iaahay. |
| 55 | 19CV052 | Kolape Snehal Babaso | |
| 56 | 19CV053 | Korabu Arbaj Balam | A.T. |
| 57 | 19CV057 | Leharkar Ganesh Gajanan | |
| 58 | 20CV304 | Bari Piyush Munesh | pmb |
| 59 | 20CV312 | Deshmukh Yash Rajesh | |
| 60 | 20CV301 | Adhav Prasad Prashant | July |
| 61 | 20CV309 | Chile Pallavi Dilip | Pallavi |
| 62 | 20CV305 | Bari Sakshi Sanjay | Sakshi |
| 63 | 20CV302 | Badgujar Sakshi Nitin | Sakshi |
| 64 | 20CV321 | Kaware Akshay Sanjay | Akshay |
| 65 | 20CV323 | Lahane Shweta Narshing | Shweta |
| 66 | 20CV310 | Dalvi Vinayak Dada | Vinayak |
| 67 | 20CV317 | Jagtap Aditya Sanjay | |
| 68 | 20CV316 | Jadhav Karan Haribhau | |
| 69 | 20CV313 | Dhumal Indrajeet Suhas | Indrajeet |
| 70 | 20CV318 | Jagtap Nandini Krushna | |
| 71 | 20CV303 | Bang Tejas Sunilkumar | |
| 72 | 20CV308 | Chavhan Chandan Mahendra | |
| 73 | 20CV314 | Gadiya Trupti Nitin | Trupti |
| 74 | 20CV319 | Jagtap Rajeshri Bandu | Rajeshri |
| 75 | 20CV322 | Koli Ajay Nagnath | Ajay |
| 76 | 20CV307 | Birajdar Kiran Shahuraj | Kiran |
| 77 | 20CV306 | Bhosale Ajay Kondiba | |
| 78 | 20CV320 | Kachave Ghanashyam Indarchand | |
| 79 | 20CV311 | Deshmukh Maithili Sayajirao | |
| 80 | 20CV315 | Gaikwad Sangam Mohan | Sangam |
| 81 | 19CV054 | Lamjane Vaishnavi S | |
| 82 | 19CV036 | Gund Aniket Sandeep | Aniket |


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COLLEGE OF ENGINEERING, PUNE

Academic Year – 2022-23 (TERM – I)

Civil Engineering Department

Industry Expert Talk on Geotechnical and Foundation Engineering Challenges Infrastructural Projects by
Sunil Basirkar, AFCONS Infrastructure Limited, Mumbai

Day : Saturday

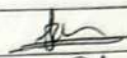
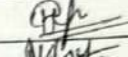

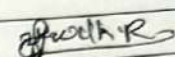
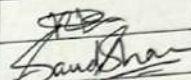



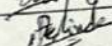
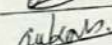

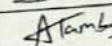
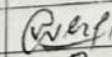

Date: 31/9/2022


Time : 10 to 1

Class: B.E. Civil (B)

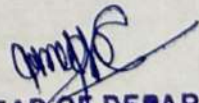
| SN | Roll No. | Name of Student | Sign |
|----|----------|------------------------------|------|
| 1 | 17CV079 | Nagthane Shivprasad Surykant | |
| 2 | 17CV091 | Pawar Abhishek Ananda | |
| 3 | 18CV116 | Wadekar Bhushan Mangesh | |
| 4 | 18CV070 | Naik Suyash Sameer | |
| 5 | 18CV087 | Pratik Chandrakant Deshmukh | |
| 6 | 18CV103 | Shinde Avishkar Suresh | |
| 7 | 18CV114 | Tribhuvan Harshal Subhash | |
| 8 | 18CV120 | Yadav Bhakti Govind | |
| 9 | 19CV062 | More Aditya Sunil | |
| 10 | 19CV068 | Mungase Shubhada Arun | |
| 11 | 19CV070 | Narsale Dhanshri Bhausaheb | |
| 12 | 19CV073 | Padvi Aditya Raju | |
| 13 | 19CV074 | Pandharpure Aishwarya Sudhir | |
| 14 | 19CV075 | Patil Akshita Hemkant | |
| 15 | 19CV076 | Patil Kalpesh Purushottam | |
| 16 | 19CV079 | Pawar Atharva Vijay | |
| 17 | 19CV080 | Pawar Gaurav Vilas | |
| 18 | 19CV081 | Pawar Neha Vijay | |
| 19 | 19CV082 | Pawar Shivam Gangadhar | |
| 20 | 19CV083 | Pawar Shubham Sakhamam | |

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CIVIL ENGINEERING
AIGSMS's COE, PUNE-1.

| | | | |
|----|---------|-----------------------------|---|
| 21 | 19CV084 | Pawar Siddhesh Baban |  |
| 22 | 19CV085 | Petkar Hasari Raju |  |
| 23 | 19CV087 | Pradhan Akshay Ramdas |  |
| 24 | 19CV088 | Rananaware Ruchita Chandan | |
| 25 | 19CV089 | Rasal Sumit Sanjay | |
| 26 | 19CV090 | Rathod Ravindra Parmeshwar | |
| 27 | 19CV091 | Rathod Yudhajeet Ramprakash |  |
| 28 | 19CV092 | Real Yashvinder Jagdish | |
| 29 | 19CV094 | Salunke Viraj Mahendra |  |
| 30 | 19CV095 | Saud Ilyas Shaikh |  |
| 31 | 19CV097 | Shanware Samir Prakash |  |
| 32 | 19CV098 | Shinde Gaurav Raju |  |
| 33 | 19CV099 | Shinde Shivraj Yadavrao |  |
| 34 | 19CV100 | Shinde Uday Anil |  |
| 35 | 19CV101 | Shirke Omkar Vishwanath | |
| 36 | 19CV102 | Sonar Ajinkya Ishwar |  |
| 37 | 19CV103 | Sonkamble Manthan Vilas |  |
| 38 | 19CV104 | Tamboli Aayan Sardar | |
| 39 | 19CV105 | Tanpure Ritesh Dilip | |
| 40 | 19CV106 | Thakare Sohan Chandrakant | |
| 41 | 19CV107 | Thorat Swapnil Sambhaji | |
| 42 | 19CV108 | Toradmal Ishani Rajesh | |
| 43 | 19CV109 | Tupe Devang Samir | |
| 44 | 19CV110 | Vardam Rohit Sachin | |
| 45 | 19CV111 | Vayadande Omkar Shrikant | |
| 46 | 19CV112 | Vhatkar Shreyas Prakash | |
| 47 | 19CV114 | Vyawhare Jaydip Anil | |
| 48 | 19CV058 | Vinay Gupta |  |
| 49 | 19CV061 | Mhaske Paritosh Bharat |  |
| 50 | 19CV063 | More Prachi Bhaskarrao | |


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CIVIL ENGINEERING
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| | | | |
|----|---------|--------------------------------|--------------------|
| 51 | 19CV064 | More Tejas Nandkishor | |
| 52 | 19CV066 | Mulik Droupada Babaso | |
| 53 | 19CV067 | Mundhe Abhijit Changdev | |
| 54 | 19CV071 | Nikhade Prashik Manohar | |
| 55 | 19CV072 | Nile Prachi Sunil | |
| 56 | 19CV077 | Patil Rohit Himmat | <u>Rohit Patil</u> |
| 57 | 19CV078 | Patil Sharyu Shashikant | <u>Sharyu</u> |
| 58 | 20CV332 | Sandanshiv Shushant Vijay | <u>Sushant</u> |
| 59 | 20CV340 | Sitap Omkar Shantaram | <u>Sitap</u> |
| 60 | 20CV327 | Rakshe Bhavana Ravi | <u>Bhavana</u> |
| 61 | 20CV339 | Purandare Shubhankar Saurabh | <u>Shubh</u> |
| 62 | 20CV334 | Tangature Sayali Sheshpal | <u>Sayali</u> |
| 63 | 20CV335 | Shalgar Kapil Rahul | <u>K.P.</u> |
| 64 | 20CV342 | Suryawanshi Sanika Kailas | <u>Sanika</u> |
| 65 | 20CV325 | Mudekar Sanket Shashikant | <u>Sanket</u> |
| 66 | 20CV337 | Shinde Ritik Shashikant | <u>Ritik</u> |
| 67 | 20CV336 | Shelke Yash Pramod | <u>Yash</u> |
| 68 | 20CV324 | Mhetre Swapnil Suresh | <u>Swapnil</u> |
| 69 | 20CV326 | Petkar Sakshi Santosh | <u>Sakshi</u> |
| 70 | 20CV330 | Salve Akash Pandharinath | <u>Akash</u> |
| 71 | 20CV344 | Umate Prathmesh Laxman | <u>Prathmesh</u> |
| 72 | 20CV345 | Valkunde Sneha Rajendra | <u>Sneha</u> |
| 73 | 20CV333 | Sarode Ketaki Vijay | <u>Ketaki</u> |
| 74 | 20CV341 | Surve Aishwarya Nandkumar | <u>Aishwarya</u> |
| 75 | 20CV329 | Salunke Gayatri Madhav | <u>Gayatri</u> |
| 76 | 20CV346 | Deshmukh Vishwajeet Ramesh Rao | <u>Vishwajeet</u> |
| 77 | 20CV331 | Gore Sampat Sunil | <u>Sampat</u> |
| 78 | 20CV328 | Ingawale Ritesh Ravikant | <u>Ritesh</u> |
| 79 | 20CV343 | Kedar Suyog Sudhakar | <u>Suyog</u> |
| 80 | 20CV338 | Dukare Shruti Sharad | <u>Shruti</u> |
| 81 | 19CV069 | Najum U Sahib Bhat | <u>Sahib</u> |
| 82 | 19CV065 | Mubasir Tanveer Jan | <u>Mubasir</u> |


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AISSMS

COLLEGE OF ENGINEERING

ज्ञानम सत्यमेव जयते
Accredited by NAAC with "A+" Grade



Department of Civil Engineering

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

No: Civil/2022-23/6597

Date-17/10/2022

NOTICE

All the students of SE (Civil) are hereby informed that, IGS (Indian Geotechnical Society) organizes seminar on the topic of "Session on Intellectual Property Rights and IP Management for Start-ups" by Dr. V N Patil, Professor in Civil Engineering, AISSMS COE, Pune-1.

All Students are requested to attend above said seminar compulsory. Details of Seminar are as given below.

Date: Monday, 17/10/2022.

Time: 03.00 to 05.00 pm

Venue : Civil Seminar Hall, 4th Floor.

Prof. R D Nalawade
IGS Student Chapter
Coordinator

Dr. S R Parekar
Overall Student Chapter
Coordinator



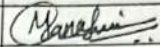
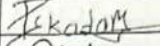

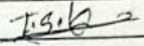

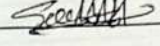

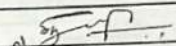

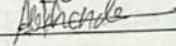
P B Nangare
HOD

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CIVIL ENGINEERING
AISSMS's COE, PUNE-1.


Copy to: Department Notice Board

Mission:- M1: Provide quality education to develop competent Civil Engineers.
M2: Create awareness among students for sustainable development.
M3: Cultivate the leadership qualities for becoming successful entrepreneurs.

| N | Roll No. | Name of Student | Signature |
|---|----------|-----------------------------|--|
| 6 | 21CV035 | Jadhav Gaurav Dattu |  |
| 7 | 21CV036 | Jadhav Hrishikesh Rajendra |  |
| 8 | 21CV037 | Jadhav Mithilesh Sunil | |
| 9 | 21CV038 | Jagdale Manasvi Mahesh |  |
| 0 | 21CV039 | Jagtap Akash Manoj | |
| 1 | 21CV040 | Kadam Prathmesh Santosh |  |
| 2 | 21CV041 | Kalamkar Ketan Goraksh |  |
| 3 | 21CV042 | Kalebag Shreyash Sahebrao | |
| 4 | 21CV043 | Kamthe Tejas Shantaram |  |
| 5 | 21CV044 | Khomane Tejas Arun |  |
| 6 | 21CV045 | Kinholkar Sanchit Sanjay |  |
| 7 | 21CV046 | Korlekar Vaishnavi Manoj | |
| 8 | 21CV047 | Kulkarni Aniruddha Devendra |  |
| 9 | 21CV048 | Kumar Ayush Kumar | |
| 0 | 21CV049 | Kumbalkar Sameep Jagdish |  |
| 1 | 21CV050 | Lagad Aary Narsing |  |
| 2 | 21CV051 | Lokhande Abhishek Tanaji |  |

Faculty

HOD


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THENTORIO TO GASH
CIVIL ENGINEERING
AISSMS's COE, PUNE-1

AISSMS COLLEGE OF ENGINEERING, PUNE-1

Department of Civil Engineering

SE (A) Attendance Sheet

Seminar On "Session on Intellectual Rights and IP Management for Start-ups"

| SN | Roll No. | Name of Student | Signature |
|----|----------|---------------------------|---------------|
| 1 | 21CV001 | Ambalkar Sarvadnya Anil | |
| 2 | 21CV002 | Bagade Ashish Santosh | S.A. Bagade |
| 3 | 21CV003 | Bankar Soham Atul | |
| 4 | 21CV004 | Barbade Pravin Prabhakar | |
| 5 | 21CV005 | Barde Pranav Shivnath | Barde |
| 6 | 21CV006 | Bendhari Pushkar Ganpat | |
| 7 | 21CV007 | Bhoinwad Saurabh Nagorao | |
| 8 | 21CV008 | Bhondave Vedant Kumar | |
| 9 | 21CV009 | Bhondawe Amar Shivdas | |
| 10 | 21CV010 | Bhosale Sakshi Sanjay | AB |
| 11 | 21CV011 | Bodkhe Bhagyesh Babarao | |
| 12 | 21CV012 | Chakor Nitin Somnath | |
| 13 | 21CV013 | Chaudhari Omkar Sunil | |
| 14 | 21CV014 | Chaukate Saurabh Rajendra | Chaukate |
| 15 | 21CV015 | Chavan Siddesh Shekhar | Siddesh |
| 16 | 21CV016 | Chavari Sumeet Vijay | |
| 17 | 21CV017 | Chikane Riya Devidas | |
| 18 | 21CV018 | Chittriv Parth Pramod | |
| 19 | 21CV019 | Dangat Arya Umesh | |
| 20 | 21CV020 | Deshmukh Riya Dnyandeo | |
| 21 | 21CV021 | Deshpande Raghav Rajesh | |
| 22 | 21CV022 | Dhotre Rajat Dattatray | |
| 23 | 21CV023 | Dube Atharva Abhijeet | AB |
| 24 | 21CV024 | Firodiya Tilak Bhushan | A.A. Firodiya |
| 25 | 21CV025 | Gaikwad Akash Panduarang | |
| 26 | 21CV026 | Gavade Vinayak Vijay | |
| 27 | 21CV027 | Ghadge Divya Ambadas | Ghadge |
| 28 | 21CV028 | Ghanavt Samrudhi Vijay | Samrudhi |
| 29 | 21CV029 | Gholap Yashraj Nitin | Yashraj |
| 30 | 21CV030 | Gholve Sagar Shivaji | |
| 31 | 21CV031 | Ghyar Tushar Rajesh | Tushar |
| 32 | 21CV032 | Gosavi Prasad Kantilal | |
| 33 | 22CV201 | Gurav Prem Dwarkanath | |
| 34 | 21CV033 | Hanwate Siddhi Kishor | |
| 35 | 21CV034 | Jadhav Atharva Ravindra | Atharva |

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AISSMS's COE, PUNE-1.

| SN | Roll No. | Name of Student | Signature |
|----|----------|-------------------------------|-----------|
| 36 | 21CV088 | Sonvane Prathmesh Dipak | |
| 37 | 21CV089 | Sorate Nikhil Ramesh | |
| 38 | 21CV090 | Tadavi Avesh Amol | |
| 39 | 21CV091 | Tayade Krushna Ravibabu | |
| 40 | 21CV092 | Thakare Arjun Ajay | |
| 41 | 21CV093 | Thakare Om Kailas | |
| 42 | 21CV094 | Tilekar Aryan Shantanu | Aryan |
| 43 | 21CV095 | Ubhe Sanika Dnyaneshwar | |
| 44 | 21CV096 | Ugalmogale Akshay Ashok | |
| 45 | 21CV097 | Utekar Om Shivdas | |
| 46 | 21CV098 | Vispute Om Sandeep | |
| 47 | 21CV099 | Vyavahare Dhanshree Babasaheb | |
| 48 | 21CV100 | Waghmare Tejas Machhindra | |
| 49 | 21CV101 | Waghmode Dada Haridas | |

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CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

Date: 17/10/2022

AISSMS COLLEGE OF ENGINEERING, PUNE-1

Department of Civil Engineering

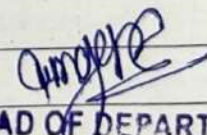
SE (B) Attendance Sheet

Seminar On "Session on Intellectual Rights and IP Management for Start-ups"

| SN | Roll No. | Name of Student | Signature |
|----|----------|-----------------------------|----------------|
| 1 | 21CV052 | Lokhande Aniket Shrikant | |
| 2 | 21CV053 | Lokhande Kshitij Prashant | |
| 3 | 21CV054 | Machale Atharva Ravindra | |
| 4 | 21CV055 | Mali Rohan Prakash | |
| 5 | 21CV056 | Mandade Sahil Omprakash | <i>Mandade</i> |
| 6 | 21CV057 | Moin Khudbuddin Mujawar | |
| 7 | 21CV058 | Mundhe Vivek Ashok | |
| 8 | 21CV059 | Nalawade Samruddhi Sharad | |
| 9 | 21CV061 | Nigade Atharva Sanjay | |
| 10 | 21CV062 | Nikam Rohit Bhalchandra | <i>Nigade</i> |
| 11 | 21CV063 | Nikam Shivraj Dipak | <i>Nigade</i> |
| 12 | 21CV064 | Pardikar Mukta Rajendra | |
| 13 | 21CV065 | Parellwar Chahul Rajendra | |
| 14 | 21CV066 | Patil Dnyanesh Madhukar | <i>Patil</i> |
| 15 | 21CV067 | Patil Harshavardhan Samir | |
| 16 | 21CV068 | Patil Prathamesh Babaso | |
| 17 | 21CV069 | Patil Sukruti Chetan | |
| 18 | 21CV070 | Patil Yash Vinod | |
| 19 | 21CV071 | Patole Nilesh Ram | |
| 20 | 21CV072 | Pawar Manav Nagesh | |
| 21 | 21CV073 | Pisal Jaideep Suresh | <i>Pisal</i> |
| 22 | 21CV074 | Pujari Rohit Madhukar | |
| 23 | 21CV075 | Purohit Sachinkumar Ugmaram | |
| 24 | 21CV076 | Rajput Aishwarya Pandurang | |
| 25 | 21CV077 | Rajput Sangram Suresh | |
| 26 | 21CV078 | Rohokale Atharv Mukund | |
| 27 | 21CV079 | Sarpe Kunal Kiran | |
| 28 | 21CV080 | Savadi Snehit Suresh | |
| 29 | 21CV081 | Sawant Tejas Ashok | |
| 30 | 21CV082 | Shaikh Galib Munvar | |
| 31 | 21CV083 | Shaikh Rayyan Akil | |
| 32 | 21CV084 | Sharma Aakash Vishvamohan | |
| 33 | 21CV085 | Shelar Siddhesh Ramrao | |
| 34 | 21CV086 | Shinde Satyajeet Sandip | <i>Shinde</i> |
| 35 | 21CV087 | Shivam Sunil Deokate | <i>Shivam</i> |

[Signature]
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1. Nagawade Gauri
2. Kadus Prajakta
3. Gargote Vaishnavi
4. Velam Smit
5. Koli Shivam
6. Saraf Mital
7. Hudge Annapurna
8. Mali Jyoti
9. Dube Ajay
10. Ghorpade Aviraj
11. Bodle Sajan
12. Annamwad Mahesh
13. Abbad Jayraj
14. Panchal Ajay
15. Shinde Ankita
16. Tadhar Mahesh
17. Sakshi Kamble
18. Rutuja Bangal
19. Mrunal Salave
20. Sarang Wagh
21. Desai Suyash
- 22) Himanshu M. Soni
- 23) Mandar Bhosale
- 24) Tashar Patel


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**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE**

**ACADEMIC
REVIEW PROCESS**

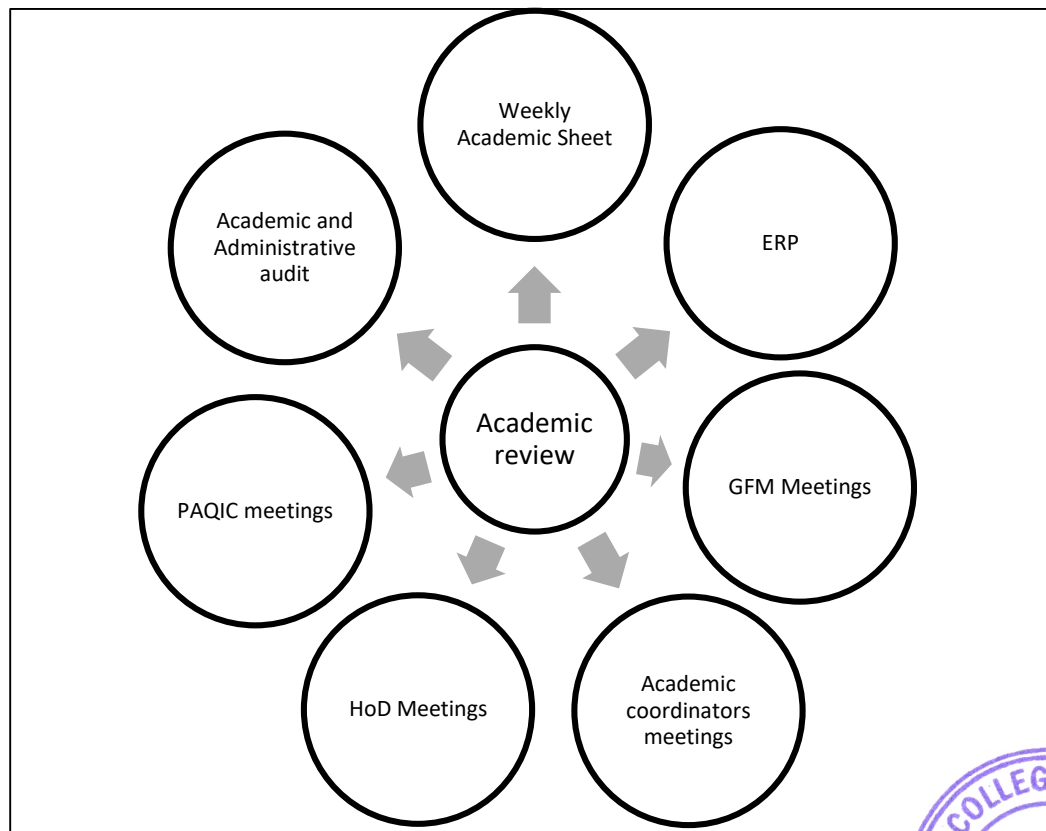


Academic Review Process

To ensure the delivery of high-quality technical education, an Academic Development and Monitoring Committee (ADMC) has been established at the institute level. The primary mandate of the ADMC is to formulate strategies, rules, regulations, and policies that foster an environment conducive to the teaching-learning process, as well as to ensure the effective planning and implementation of the curriculum.

Led by the Principal, the ADMC includes key members such as the Institute Academic Coordinator (IAC), Heads of all departments (HOD), and Department Academic Coordinators (DAC). This committee bears the responsibility of planning and monitoring overall academic operations, activities, procedures, and the maintenance of relevant documents and files. Collaboration with various departmental committees and coordinators is integral to achieving these objectives.

Regular reviews of academic activities are systematically conducted through mechanisms such as weekly academic Google Sheets, Enterprise Resource Planning (ERP), and General Faculty Meetings (GFM). Discussions in Head of Department (HoD) meetings, Academic Coordinators meetings, and meetings of the Planning and Quality Improvement Cell (PAQIC) are followed by comprehensive academic audits. These efforts collectively contribute to the continuous enhancement and evaluation of the academic landscape within the institute.



1. Weekly Academic Sheet Process:

On a weekly basis, the Institute Academic Coordinator (IAC) disseminates a Google Form to all faculty members through the AISSMS Google Group. This form serves as a comprehensive tool for gathering crucial information. Faculty members are required to input details such as the lectures planned, sessions conducted (including lectures, practicals, and tutorials), and the maximum and minimum number of students present during the week.

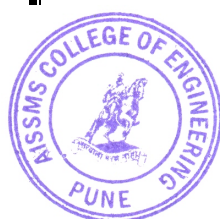
Additionally, the form captures data on attendance, ensuring that this information is updated on the Enterprise Resource Planning (ERP) system. The IAC then collates all the submitted data to generate a consolidated report. This report, encompassing key aspects of the week's academic activities, is subsequently submitted to higher authorities every Friday. This systematic process facilitates transparent documentation and regular reporting, contributing to effective academic monitoring and evaluation.

2. ERP Academic Monitoring:

The Academic Coordinator, Heads of Departments (HOD), and the General Faculty Meeting (GFM) actively oversee syllabus progress by utilizing the Enterprise Resource Planning (ERP) system on a fortnightly basis. This entails a comprehensive assessment of planned versus conducted lectures, enabling the identification of any gaps. Prompt corrective actions are then implemented to address and rectify these gaps in syllabus coverage. The ERP system is pivotal in executing various academic monitoring activities, including:

- Timetable Preparation: Creating schedules tailored to different criteria such as class, laboratory, classroom, and individual requirements.
- Teaching Plan Formulation: Developing detailed plans outlining the teaching approach and content for each course.
- Attendance Monitoring: Regular tracking of attendance on a subject-wise, class-wise, and percentage-wise basis.
- Syllabus Coverage Monitoring: Continuous assessment to ensure that the syllabus is being covered as planned.
- Parent Communication via SMS: Utilizing the ERP system to send regular updates and communications to parents.

Furthermore, the ERP system serves as a platform for gathering valuable student feedback on the teaching of each course. This feedback is collected twice per semester, with Mid-Term feedback obtained after the initial 30 to 40 days of teaching. Following Mid-Term feedback, corrective measures are promptly implemented. End-Term feedback is collected at



the conclusion of the semester, providing a holistic view of the teaching effectiveness throughout the academic term. This comprehensive approach to utilizing ERP ensures efficient academic monitoring and continuous improvement in the educational process.

3. GFM Meetings:

Each class is assigned a Guardian Faculty Member (GFM) by the Head of Department (HoD). The GFM convenes fortnightly meetings with the faculty responsible for teaching theory and practical components to the designated class. These GFM meetings serve as a platform for discussing various aspects, including:

- Syllabus Coverage: Reviewing the progress of syllabus coverage in both theory and practical sessions.
- Test and Assignment Completion: Assessing the completion status of tests and assignments within the designated class.
- Activities Conducted: Discussing any extracurricular or academic activities carried out during the specified period.
- Defaulter Students Lists: Identifying and addressing students who may have defaulted in terms of attendance or academic responsibilities.
- Load Adjustment Discussions: Addressing any specific load adjustments required due to faculty leave or other circumstances.

These regular GFM meetings facilitate effective communication and coordination among faculty members, ensuring a comprehensive overview of the academic and extracurricular activities within each class.

4. Academic Coordinator Meetings:

The Institute Academic Coordinator organizes regular meetings with departmental academic coordinators to delve into various aspects of academic planning and execution. These meetings encompass discussions on:

- Planning and Execution of Internal Tests: Collaborative planning and assessment of the internal testing process within each department.
- Project/Seminar/Internship Reviews: Evaluation and coordination of reviews related to projects, seminars, and internships.
- Utilization of Academic Infrastructure: Discussion on the effective use and optimization of academic resources and infrastructure such as Lecture capture facility.



- **Rescheduling of Classes:** Addressing any necessary adjustments to class schedules arising from examinations or other activities.
- **Co-curricular Activities:** Planning and coordination of co-curricular activities to enhance the overall educational experience.

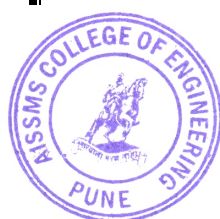
These sessions foster communication and coordination among academic coordinators, ensuring a streamlined approach to various academic endeavors within the institute.

5. Head of Department (HoD) Meetings:

Head of Department (HoD) meetings, presided over by the Principal, are scheduled every Thursday. These meetings serve as a dedicated forum for reviewing various academic aspects. Discussions include:

- **Students Reporting:** Updates and discussions on students' overall academic performance and progress.
- **Attendance:** Examination of attendance records and discussions on strategies to enhance attendance rates.
- **Results:** Reviewing and analyzing academic results to ensure continuous improvement in teaching methodologies.
- **SMS Communication:** Deliberations on the effective use of SMS for communication with stakeholders.
- **Institute Academic Calendar:** Planning and coordination of academic activities in alignment with the institute's academic calendar.
- **Planning of Academic Audits:** Discussions on the scheduling and execution of comprehensive academic audits.
- **Defaulter Lists:** Identifying and addressing issues related to students who may have defaulted in academic or attendance requirements.
- **Students Detention:** Addressing matters related to students' academic detentions and implementing corrective measures.
- **Examination-related Issues:** Addressing any challenges or concerns related to examinations and exploring solutions.

These HoD meetings play a crucial role in fostering communication, collaboration, and strategic planning among department heads to ensure the smooth functioning of academic operations within the institute.



6. Program Assessment and Quality Improvement Committee (PAQIC) meetings:

PAQIC meetings take place within each department with a primary focus on evaluating Course Outcomes (COs) and Program Outcomes (POs). The key agenda of these meetings is to identify any gaps in the attainment of POs and devise strategies to address them. During PAQIC meetings, various activities are planned to enhance the overall quality of education. This includes:

- Quality of Internal Question Papers: Reviewing and ensuring the high quality of internal examination question papers.
- Inputs from Module Coordinators: Evaluating and incorporating inputs from module coordinators to enhance the effectiveness of course modules.
- Addressing Gaps in PO Attainment: Assessing and addressing any shortcomings in achieving Program Outcomes.

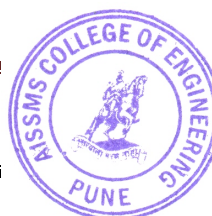
PAQIC meetings play a vital role in continuous improvement, ensuring that the department's educational goals align with established outcomes. The collaborative efforts within these meetings contribute to maintaining and enhancing the overall quality of education and assessments within the department.

7. Academic and Administrative audit:

IQAC (Internal Quality Assurance Cell) conducts academic audits annually, involving both internal and external assessments. A committee is formed, consisting of two experts from other departments and one Head of Department (HoD), to conduct internal audits. Additionally, two external experts from other institutes are included in the committee to facilitate an unbiased external audit.

During the academic and administrative audit, the committee meticulously reviews the following documents and aspects:

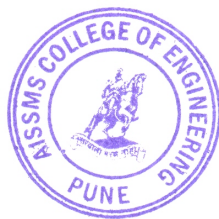
- i) Review of Status Report: Examination of the department's status report prepared for the updating of faculty course files.
- ii) Academic Records: Scrutiny of the academic records maintained by the department, ensuring accuracy and completeness.
- iii) Visit to Laboratories: Physical inspection and assessment of laboratories, ensuring that they meet the required standards and are conducive to effective learning.
- iv) Results of the Department: Analysis of the department's academic results, assessing the overall performance and identifying areas for improvement.



This comprehensive audit process serves as a robust mechanism for evaluating the academic and administrative dimensions, ensuring adherence to quality standards and fostering continuous enhancement within the academic environment.

Encl:

- i) Weekly Academic Sheet
- ii) ERP Academic Monitoring
- iii) GFM Meetings records
- iv) Minutes of Meetings
- v) Academic and Administrative audit records



Weekly Academic Sheet

Duration (01/08/22 to 05/08/2022)

* Indicates required question

1. Email *

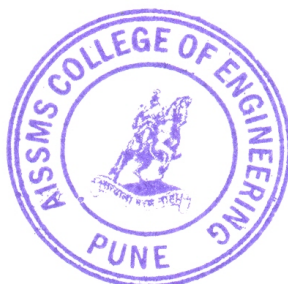
2. Department *

Mark only one oval.

- ☐ CHEMICAL *Skip to question 3*
- ☐ CIVIL *Skip to question 6*
- ☐ COMPUTER *Skip to question 9*
- ☐ ELECTRICAL *Skip to question 12*
- ☐ E&TC *Skip to question 15*
- ☐ MECHANICAL *Skip to question 18*
- ☐ PRODUCTION *Skip to question 21*
- ☐ FE *Skip to question 24*

Skip to question 27

Chemical Engineering Department



3. (CH) ERP ID *

Mark only one oval.

☐ COE-1001

☐ COE-1002

☐ COE-1003

☐ COE-1006

☐ COE-1007

☐ COE-1008

☐ COE-1009

☐ COE-1010

☐ COE-1012

☐ COE-1301

☐ COE-1308

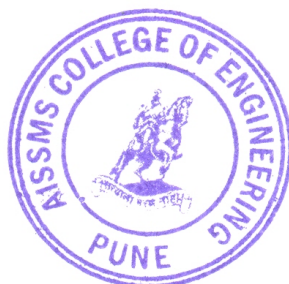
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☐ COE-8001

☐ COE-1311

☐ COE-1312

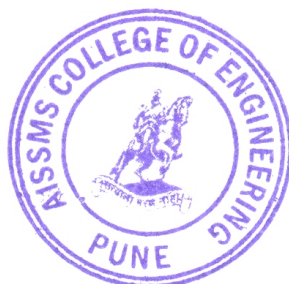
☐ COE-1313



4. (CH) Name of Faculty *

Mark only one oval.

- ☐ DR. P N DANGE
- ☐ DR. A S JADHAV
- ☐ DR. MAKARAND YASHAVANT NANIWADEKAR
- ☐ MR. P M WARKE
- ☐ MR. K B GANDHI
- ☐ DR. S B GHUGARE
- ☐ MS. K N BAWANKAR
- ☐ DR. A V MOHOD
- ☐ MR. PRAVIN SUDHAKAR TADKAR
- ☐ MRS. H L KAMBLE
- ☐ DR. MANJUSHA SUNIL DESHPANDE
- ☐ Dr Sanjay Pawar
- ☐ Dr Mahendra Baingne
- ☐ Dr Kirti Datir



5. Month *

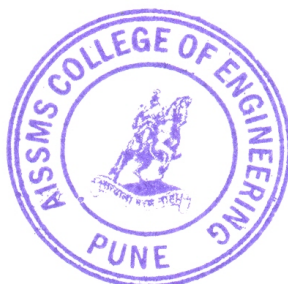
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- ☐ July
- ☐ August
- ☐ September
- ☐ October
- ☐ November
- ☐ December

Skip to question 27

Civil Engineering Department



6. (CV) ERP ID *

Mark only one oval.

☐ COE-2002

☐ COE-2003

☐ COE-2004

☐ COE-2005

☐ COE-2006

☐ COE-2007

☐ COE-2009

☐ COE-2010

☐ COE-2011

☐ COE-2012

☐ COE-2013

☐ COE-2014

☐ COE-2015

☐ COE-2017

☐ COE-2301

☐ COE-2304

☐ COE-2323

☐ COE-2328

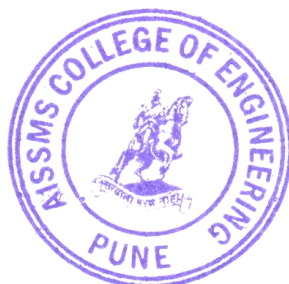
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☐ COE-2347

☐ COE-2348

☐ COE-2349

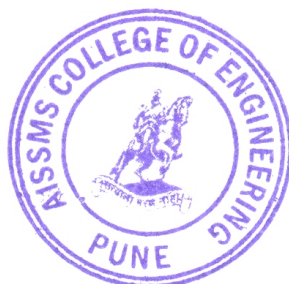
☐ COE-2350



7. (CV) Name of Faculty *

Mark only one oval.

- ☐ DR. UTTAM RAMCHANDRA AWARI
- ☐ DR. PRAKASH BABURAO NANGARE
- ☐ DR. RAVINDRA DADASO NALAWADE
- ☐ DR. SANJAY NAGRALE
- ☐ DR. DNYANESHWAR VASANT WADKAR
- ☐ MR. VIVEK CHAVAN
- ☐ MR. PANKAJ MODAK
- ☐ MRS. KALYANI KULKARNI
- ☐ MR. GANESH CHIKUTE
- ☐ MR. UTTAM JADHAV
- ☐ MS. SONAL CHAVAN
- ☐ DR. VIDYA NITIN PATIL
- ☐ Dr MANISHA WAGHMARE
- ☐ MR. CHETAN MISAL
- ☐ MS. MEGHA CHIWANDE
- ☐ MS. SNEHA KHEDEKAR
- ☐ DR. SURESH RAMRAJE PAREKAR
- ☐ MS. APARNA DEULKAR
- ☐ MS. KOJAGIRI DAGADU KASHID
- ☐ Mr Desai Kushal Udaysingh
- ☐ Dr S T Mali
- ☐ Mr Jogdand Rajendra
- ☐ Ms Meshram R



8. Month *

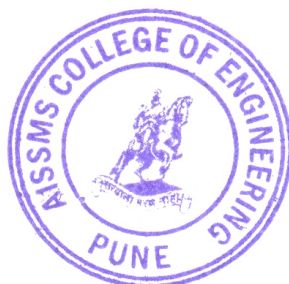
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- ☐ July
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- ☐ September
- ☐ October
- ☐ November
- ☐ December

Skip to question 27

Computer Engineering Department



9. (CO) Employee ID *

Mark only one oval.

☐ COE-3001

☐ COE-3002

☐ COE-3003

☐ COE-3005

☐ COE-3006

☐ COE-3007

☐ COE-3008

☐ COE-3009

☐ COE-3010

☐ COE-3011

☐ COE-3012

☐ COE-3013

☐ COE-3014

☐ COE-3015

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☐ COE-3336

☐ COE-3342

☐ COE-3343

☐ COE-3311

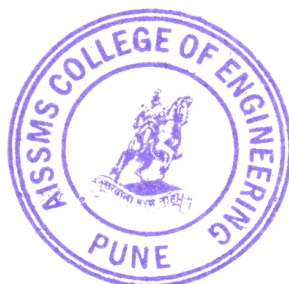
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☐ COE-3351

☐ COE-3352

☐ COE-3353

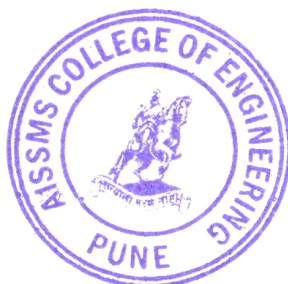
☐ COE-3355



10. (CO) Name of Faculty *

Mark only one oval.

- ☐ Dr. MADHAVI AJAY PRADHAN
- ☐ Dr. DWARKOBA PANDURANG GAIKWAD
- ☐ MR. NITIN RAMESHRAO TALHAR
- ☐ MR. ANILKUMAR JAGANNATHRAO KADAM
- ☐ DR. SHABNAM FAROOK SAYYAD
- ☐ Dr. SHASHIKANT VISHWASRAO ATHAWALE
- ☐ MS. ANURADHA SHRIRAM DEOKAR
- ☐ MS. BUSHRA QUAZI
- ☐ MS. SONALI R NALAMWAR
- ☐ MS. VIDYA VASANT WAYKULE
- ☐ MR. AMOL MAHADEV JAGTAP
- ☐ Dr DIPALI MILIND UJALAMBKAR
- ☐ MR. SUMEDH GANGADHAR DHENGRE
- ☐ MS. SHIKHA PACHOULY
- ☐ MISS. MANASI MAHADEO PHADATARE
- ☐ MS. SNEHAL SAMBHAJI KOLTE
- ☐ MS. MINAL MALLIKARJUN SWAMI
- ☐ MR. SWAMIRAJ SHAHAJIRAO JADHAV
- ☐ Neha Rai
- ☐ Ms Savitri Chetan Pawar
- ☐ Ms Ritu Saheb Dhumal
- ☐ Ms Monalli Deshmukh
- ☐ Ms Vandana Vinayak Navale
- ☐ Ms Ashwini Sajjanrao Bhosale



11. Month *

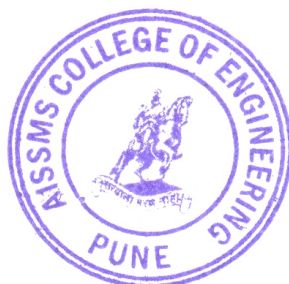
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- ☐ November
- ☐ December

Skip to question 27

Electrical Engineering Department



12. (EL) Employee ID *

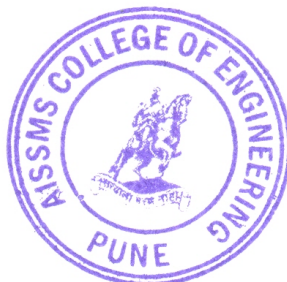
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- ☐ COE-4003
- ☐ COE-4005
- ☐ COE-4006
- ☐ COE-4007
- ☐ COE-4008
- ☐ COE-4010
- ☐ COE-4011
- ☐ COE-4012
- ☐ COE-4327
- ☐ COE-4329
- ☐ COE-8320

13. (EL) Name of Faculty *

Mark only one oval.

- ☐ DR. ASHWINI AVINASH GODBOLE
- ☐ Mr. S K BIRADAR
- ☐ DR. MANGAL H DHEND
- ☐ Dr. AISHWARYA ASHISH APTE
- ☐ MR. LAXMAN SHIVAJI GODSE
- ☐ MS. SHWETA RAJAN LENGADE
- ☐ MR. VASUDEO SHRIKANT PONKSHE
- ☐ MRS. PADMAJA SANKAR
- ☐ MRS. VISHAKHA NITIN
- ☐ MR. CHARUDATTA DILE
- ☐ MR. RAHUL SADASHIV
- ☐ MS. SIMEEN MUJAWAR
- ☐ Sreerekha Vadi



14. Month *

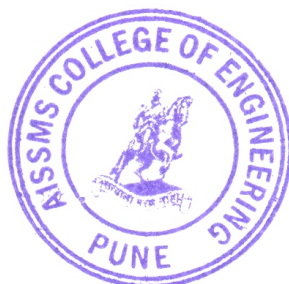
Select the month of record / activities

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- ☐ September
- ☐ October
- ☐ November
- ☐ December

Skip to question 27

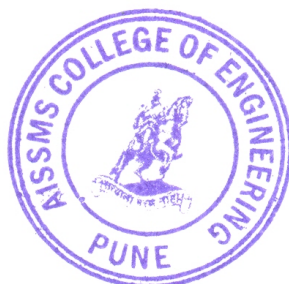
E&TC Engineering Department



15. (EX) Employee ID *

Mark only one oval.

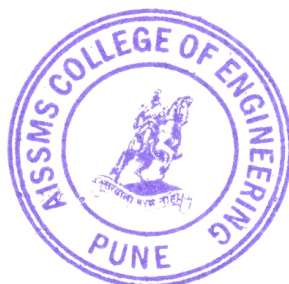
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- ☐ COE-5001
- ☐ COE-5002
- ☐ COE-5005
- ☐ COE-5006
- ☐ COE-5008
- ☐ COE-5009
- ☐ COE-5010
- ☐ COE-5012
- ☐ COE-5013
- ☐ COE-5015
- ☐ COE-5323
- ☐ COE-5324
- ☐ COE-5325
- ☐ COE-5328



16. (EX) Name of Faculty *

Mark only one oval.

- ☐ DR. DATTATRAYA SHANKAR BORMANE
- ☐ MRS. RAJASHRI RAHUL ITKARKAR
- ☐ MR. KAZI ASLAM YUSUF
- ☐ MRS. KIRTIMALINI BHALCHANDRA CHAUDHARI
- ☐ MR. NITIN PANDURANG MAWALE
- ☐ MR. SANTOSH BABURAO DHEKALE
- ☐ MS. VISMITA DEVIDAS NAGRALE
- ☐ DR. PRACHI PRASHANT VAST
- ☐ MS. VIDYA VIJAY DESHMUKH
- ☐ MRS. VAISHNAVI SUNIL NAVALE
- ☐ MRS. YOGITA PRADIP LAD
- ☐ MR. VIPIN BHASKARRAO GAWAI
- ☐ DR. DAULAPPA GURANNA BHALKE
- ☐ MS. SMITA ANIL TAKALKAR
- ☐ MS Payal Purushottam Tayade



17. Month *

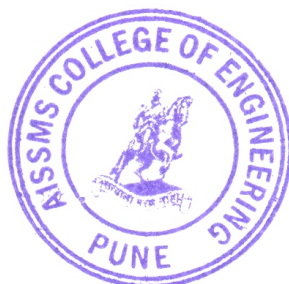
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- ☐ September
- ☐ October
- ☐ November
- ☐ December

Skip to question 27

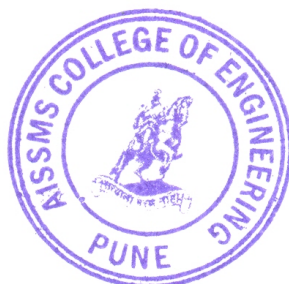
Mechanical Engineering Department



18. (ME) ERP ID *

Mark only one oval.

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- ☐ COE-6003
- ☐ COE-6005
- ☐ COE-6006
- ☐ COE-6007
- ☐ COE-6008
- ☐ COE-6009
- ☐ COE-6010
- ☐ COE-6011
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- ☐ COE-6353



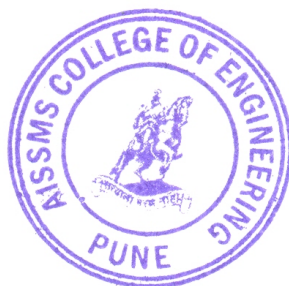
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☐ COE-6360

☐ COE-6361

☐ COE-6362

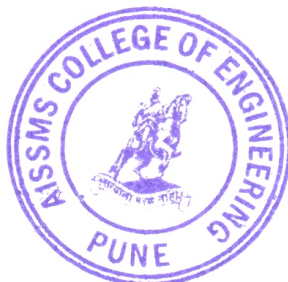
☐ COE-6363



19. (ME) Name of Faculty *

Mark only one oval.

- ☐ MR. SHRIKANT VASUDEO CHAITANYA
- ☐ MR. SUNIL RAMSING PATIL
- ☐ DR. AVINASH VISHWANATH WAGHMARE
- ☐ DR. CHANDRAKISHOR S CHOUDHARI
- ☐ MR. PRASHANT VASANTRAO DESHMUKH
- ☐ DR. DINESH YASHWANT DHANDE
- ☐ MR. RAHUL ASHOK MARNE
- ☐ DR. SHIRISH JAYSING NAVALE
- ☐ DR. CHANDRASHEKHAR SURESH DHARANKAR
- ☐ MR. MANGESH UAMAKANT GAN
- ☐ MR. OMPRAKASH ANANDRAO MORE
- ☐ MR. PANKAJ SHANKARRAO AGLAWE
- ☐ MS. ASHVINI TANAJI THOMBARE
- ☐ MR. GOPAL PANDURANG LOHAR
- ☐ MS. MARGI J CHOKSHI
- ☐ MR. MILIND SADASHIV SWAMI
- ☐ MR. MANOJ RAMESH DAHAKE
- ☐ MR. MANOJ PRAKASH BAUSKAR
- ☐ DR. BHANUDAS D BACHCHHAV
- ☐ DR. MANGESH RAVINDRA PHATE
- ☐ MR. PRIYA SHEKHAR GAJJAL
- ☐ DR. MANISH SHESHRAO DESHMUKH
- ☐ MS. SONALI SHRIKANT PATIL
- ☐ MR. NITIN NARAYAN GOTKHINDIKAR
- ☐ Dr M M Sayyad
- ☐ MR. SANDEEP HARIBH/
- ☐ Dr D S Malwad
- ☐ Mr Shahid Ali
- ☐ Ms Pranjali Thete



20. Month *

Select the month of record / activities

Mark only one oval.

- ☐ January
- ☐ February
- ☐ March
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- ☐ May
- ☐ June
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- ☐ November
- ☐ December

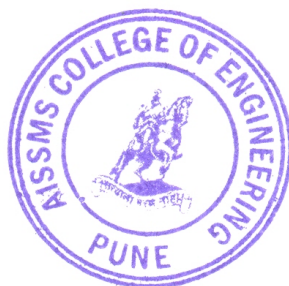
Skip to question 27

Production Engineering Department

21. (PR) ERP ID *

Mark only one oval.

- ☐ COE-7001
- ☐ COE-7002
- ☐ COE-7003
- ☐ COE-7004
- ☐ COE-7005
- ☐ COE-7006
- ☐ COE-7007
- ☐ COE-7008
- ☐ COE-7009
- ☐ COE-7801
- ☐ COE-7802



22. (PR) Name of Faculty *

Mark only one oval.

- ☐ MR. VISHNU YALLAPPA SONAWANE
- ☐ DR. NITIN GAJANAN SHEKAPURE
- ☐ MR. SACHIN SHRIKANT KALLURKAR
- ☐ MR. SUMEDH NILKANTH CHIWANDE
- ☐ MR. SANDIP KONDAJI BIDGAR
- ☐ MR. MOHAN LALITKUMAR CHANPUR
- ☐ MS. YOGITA K FUNDE
- ☐ MR. VEEJHAY D DHOLLE
- ☐ MR. MANDAR ARVIND KELKAR

23. Month *

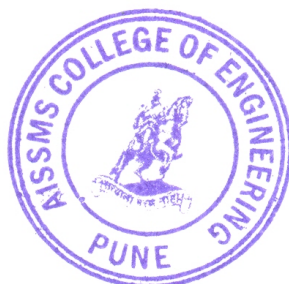
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- ☐ July
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- ☐ November
- ☐ December

Skip to question 27

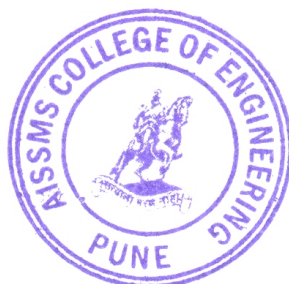
First Engineering Department



24. (PR) ERP ID *

Mark only one oval.

- ☐ COE-8002
- ☐ COE-8003
- ☐ COE-8005
- ☐ COE-8006
- ☐ COE-8009
- ☐ COE-8010
- ☐ COE-8007
- ☐ COE-8303
- ☐ COE-8351
- ☐ COE-8356
- ☐ COE-8329
- ☐ COE-8334
- ☐ COE-8343
- ☐ COE-8344
- ☐ COE-6004
- ☐ COE-2302
- ☐ COE-2305
- ☐ COE-2307
- ☐ COE-8339
- ☐ COE-2345
- ☐ COE-7253
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- ☐ COE-6026
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- ☐ COE-5004
- ☐ COE-5326
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☐ COE-2334

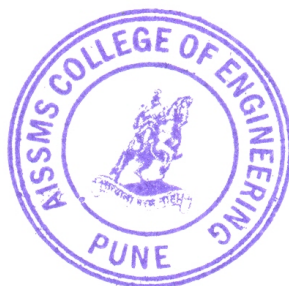
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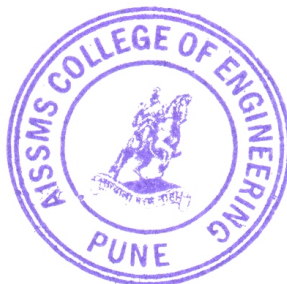
☐ COE-3322



25. (PR) Name of Faculty *

Mark only one oval.

- ☐ Dr Mahadeo Kedari Nikam
- ☐ Dr (Mrs) Supriya Kishor Upasani
- ☐ Dr Deepak Vitthal Nighot
- ☐ Dr Nana Namdeo Shejwal
- ☐ Dr Amol Bhausahab Patil
- ☐ Shri Avinash Bansidhar Thakare
- ☐ Dr (Mrs) Shalaka Abhimanyu Virkar
- ☐ Dr (Ms) Vrushali Shivsamb Kalyani
- ☐ Ms Sonali Arjun Jadhav
- ☐ Shri Sudhir Tukaram Surase
- ☐ Ms Mamta Suresh Nikam
- ☐ Shri Surajkumar Sanjayrao Khasbage
- ☐ Shri Sagar Tukaram Gade
- ☐ Shri Sumant Shesherao Patil
- ☐ Shri Vijay Rajaram Patil
- ☐ Ms Priti Rajendra Satarkar
- ☐ Ms Shilpi Sippi Bhuinyan
- ☐ Mrs Marilyn Albert D'Cruz
- ☐ Ms Suvidha Balwant Patil
- ☐ Ms Amruta Manmath Shete
- ☐ Shri Yogesh Ramesh Chandwade
- ☐ Shri Yogesh Balwant Karandikar
- ☐ Shri Prashant Gangaram Kokare
- ☐ Ms Bhagyashri Uttam Patil
- ☐ Shri Prafulla Raghunathrao Ahir
- ☐ Shri Vikas Vithal Kulkarr
- ☐ Ms Almas Ambreen Mol
- ☐ Mrs Bhagyashree Sudhi
- ☐ Shri Sudhir Purushottar
- ☐ Ms Aradhana Shashikar
- ☐ Ms Sonal Sanjay Ayare
- ☐ Ms Supriya Mohan Mangalekar



- ☐ MS B A Patil
- ☐ Dr S K Dhoke
- ☐ Mr K B Kshirsagar
- ☐ Dr. Pankaj Dinesh Baviskar
- ☐ Ankita Gupta

26. Month *

Select the month of record / activities

Mark only one oval.

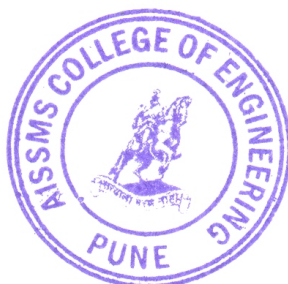
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- ☐ May
- ☐ June
- ☐ July
- ☐ August
- ☐ September
- ☐ October
- ☐ November
- ☐ December

Academic activity report

27. Information regarding academic activity *

Mark only one oval.

- ☐ Academics in progress
- ☐ Insem/Endsem exam
- ☐ Academics not started



Number of theory subjects (UG)

28. Have you allotted theory subject for UG *

Mark only one oval.

☐ yes

☐ No *Skip to question 61*

Number of lectures Conducted for Subject 1

29. Branch *

Mark only one oval.

☐ Chemical

☐ Civil A

☐ Civil B

☐ Computer

☐ Electrical

☐ Computer 2nd Shift

☐ E&TC

☐ Mechanical A

☐ Mechanical B

☐ Mechanical SW

☐ Production SW

☐ FE

30. Class *

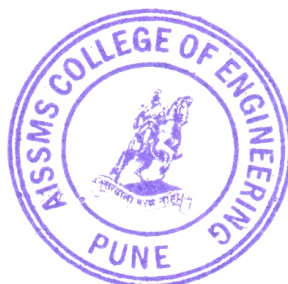
Mark only one oval.

☐ SE

☐ TE

☐ BE

☐ FE



31. Name of Subject *

Write short-form of the subject

32. Number of Lectures Schedule for this week as per timetable *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 0

33. No. of lectures Conducted *

Mark the number of lectures conducted in selected month & week

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

☐ 0



34. No. of units completed *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 0

35. Number of lectures conducted till date *

36. Number of lecture attendance filled on ERP *

37. Maximum number of students present for the lecture *

38. Minimum number of students present for the lecture *

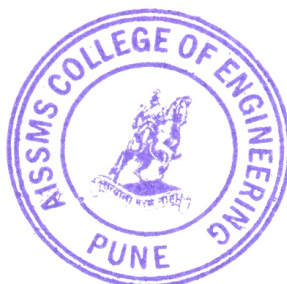
Second subject

39. Have you second subject fo

Mark only one oval.

☐ Yes

☐ No *Skip to question*



Number of lectures Conducted (Subject 2)

Note: If you don't have any theory load then select / write "NA"

40. Branch *

Mark only one oval.

- ☐ Chemical
- ☐ Civil A
- ☐ Civil B
- ☐ Computer
- ☐ Electrical
- ☐ Computer 2nd Shift
- ☐ E&TC
- ☐ Mechanical A
- ☐ Mechanical B
- ☐ Mechanical SW
- ☐ Production SW
- ☐ FE
- ☐ PG

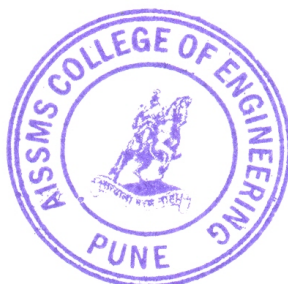
41. Class *

Mark only one oval.

- ☐ SE
- ☐ TE
- ☐ BE
- ☐ FE

42. Name of Subject *

Write short-form of the subject



43. Number of Lectures Schedule for this week as per timetable *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 0

44. No. of lectures Conducted *

Mark the number of lectures conducted in selected month & week

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

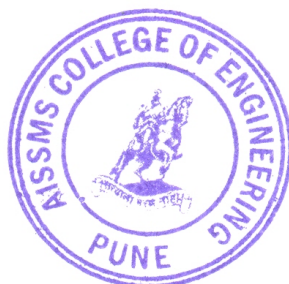
☐ 5

☐ 6

☐ 7

☐ 8

☐ 0



45. Number of units completed *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 0

46. Number of lectures conducted till date *

47. Number of lecture attendance filled on ERP *

48. Maximum number of students present for the lecture *

49. Minimum number of students present for the lecture *

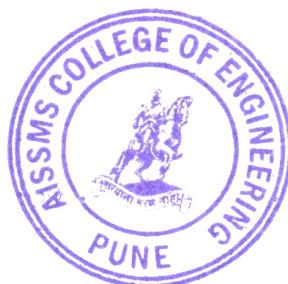
Third subject

50. Have you allotted third subject

Mark only one oval.

☐ Yes

☐ No *Skip to question*



Number of lectures Conducted (Subject 3)

51. Branch *

Mark only one oval.

- ☐ Chemical
- ☐ Civil A
- ☐ Civil B
- ☐ Computer
- ☐ Electrical
- ☐ Computer 2nd Shift
- ☐ E&TC
- ☐ Mechanical A
- ☐ Mechanical B
- ☐ Mechanical SW
- ☐ Production SW
- ☐ FE

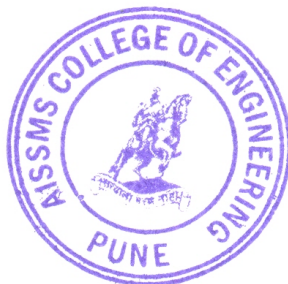
52. Class *

Mark only one oval.

- ☐ SE
- ☐ TE
- ☐ BE
- ☐ FE

53. Name of Subject *

Write short-form of the subject



54. Number of Lectures Schedule for this week as per timetable *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 0

55. No. of lectures Conducted *

Mark the number of lectures conducted in selected month & week

Mark only one oval.

☐ 1

☐ 2

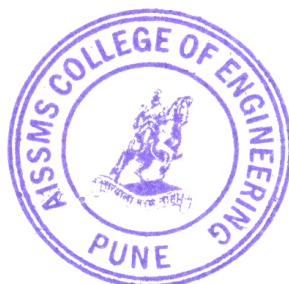
☐ 3

☐ 4

☐ 5

☐ 6

☐ 0



56. Number of units completed *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 0

57. Number of lectures conducted till date *

58. Number of lecture attendance filled on ERP *

59. Maximum number of students present for the lecture *

60. Minimum number of students present for the lecture *

Skip to question 61

Theory subjects for PG

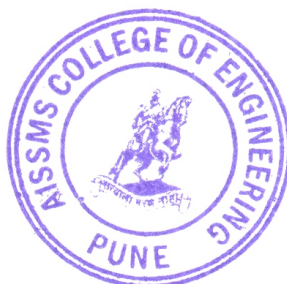
61. Have you allotted theory for

Mark only one oval.

☐ Yes

☐ No

Skip to question 15



Skip to question 75

Academic activity report

62. Information regarding academic activity *

Mark only one oval.

- ☐ Academics in progress
- ☐ Insem/Endsem exam *Skip to question 75*
- ☐ Academics not started *Skip to question 75*

Skip to question 28

Number of Theory subjects for PG

63. Theory subjects allotted (PG) *

Mark only one oval.

- ☐ 1
- ☐ 2

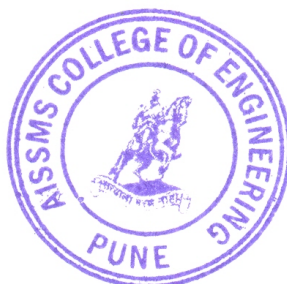
Theory subject (PG)

64. Name of the subject: *

65. Lectures per week as per curriculum: *

Mark only one oval.

- ☐ 3
- ☐ 4
- ☐ 5



66. Number of lectures conducted *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 0

67. Maximum number of students present for the lecture *

68. Minimum number of students present for the lecture *

Second subject

69. Have you allotted second subject for PG

Mark only one oval.

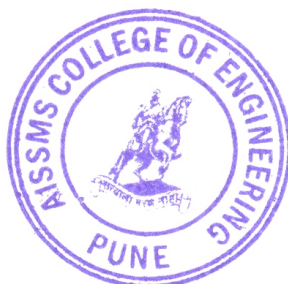
☐ Yes

☐ No *Skip to question 75*

Skip to question 75

Theory subjects (02)

70. Name of theory subject 2 *



71. Number of Lectures as per curriculum for theory subject 2 *

Mark only one oval.

☐ 3

☐ 4

☐ 5

72. Number of lectures conducted *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 0

73. Maximum number of students present for the lecture *

74. Minimum number of students present for the lecture *

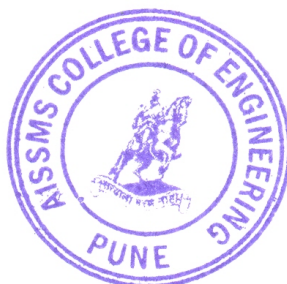
Number of Practicals Conducted

75. Are you conducting Practicals? *

Mark only one oval.

☐ Yes *Skip to question*

☐ No *Skip to question*



Number of Practicals Conducted: Subject 1:

76. Branch *

Mark only one oval.

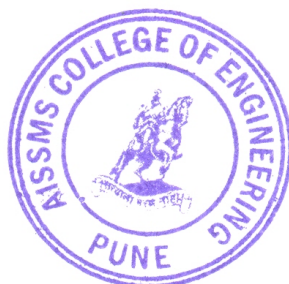
- ☐ Chemical
- ☐ Civil A
- ☐ Civil B
- ☐ Computer
- ☐ Electrical
- ☐ Computer 2nd Shift
- ☐ E&TC
- ☐ Mechanical A
- ☐ Mechanical B
- ☐ Mechanical SW
- ☐ Production SW
- ☐ FE

77. Class *

Mark only one oval.

- ☐ SE
- ☐ TE
- ☐ BE
- ☐ ME
- ☐ FE

78. Name of Subject *



79. Number of batches for the subject *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

☐ 9

80. Total number of practicals conducted in this week *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

☐ 9

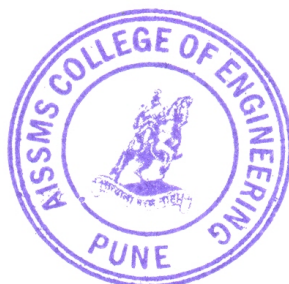
☐ 0

81. Are you conducting practicals *

Mark only one oval.

☐ Yes

☐ No *Skip to question*



Number of Practicals Conducted: Subject 2:

82. Branch *

Mark only one oval.

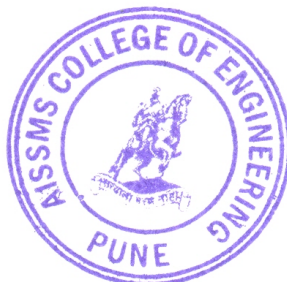
- ☐ Chemical
- ☐ Civil A
- ☐ Civil B
- ☐ Computer
- ☐ Electrical
- ☐ Computer 2nd Shift
- ☐ E&TC
- ☐ Mechanical A
- ☐ Mechanical B
- ☐ Mechanical SW
- ☐ Production SW
- ☐ FE

83. Class *

Mark only one oval.

- ☐ SE
- ☐ TE
- ☐ BE
- ☐ ME
- ☐ FE

84. Name of Subject *



85. Number of batches for the subject *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

☐ 9

86. Total number of practicals conducted in this week *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

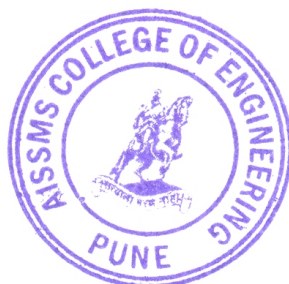
☐ 6

☐ 7

☐ 8

☐ 9

☐ 0



87. Term work consists of *

Tick all that apply.

- ☐ Performing practicals
- ☐ Assignments
- ☐ Sheets
- ☐ Virtual labs
- ☐ Activity

88. Are you conducting practical for third subject *

Mark only one oval.

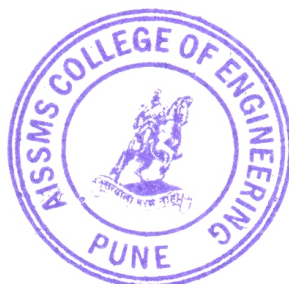
- ☐ Yes
- ☐ No *Skip to question 94*

Number of Practicals Conducted: Subject 3:

89. Branch *

Tick all that apply.

- ☐ Chemical
- ☐ Civil A
- ☐ Civil B
- ☐ Computer
- ☐ Electrical
- ☐ Computer 2nd Shift
- ☐ E&TC
- ☐ Mechanical A
- ☐ Mechanical B
- ☐ Mechanical SW
- ☐ Production SW
- ☐ FE



90. Class *

Tick all that apply.

- ☐ SE
- ☐ TE
- ☐ BE
- ☐ ME
- ☐ FE

91. Name of Subject *

92. Number of batches for the subject *

Mark only one oval.

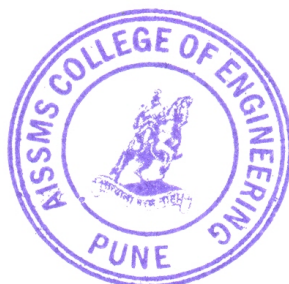
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5

93. Term work consists of *

Tick all that apply.

- ☐ Performing practicals
- ☐ Assignments
- ☐ Sheets
- ☐ Virtual labs
- ☐ Activity

Tutorial



94. Are you conducting tutorials? *

Mark only one oval.

☐ Yes

☐ No

Tutorials

95. Name of the subject *

96. Number of batches for the subject *

Mark only one oval.

☐ 1

☐ 2

☐ 3

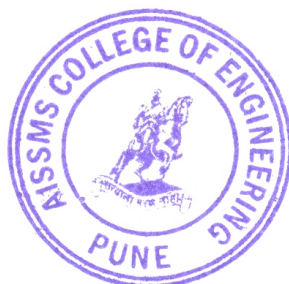
☐ 4

☐ 5

☐ 6

☐ 7

☐ 8



97. Total number of tutorials conducted in this week *

Mark only one oval.

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

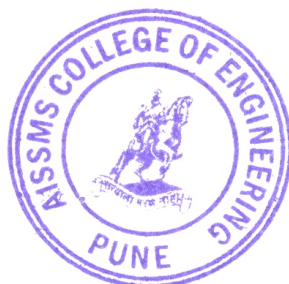
☐ 7

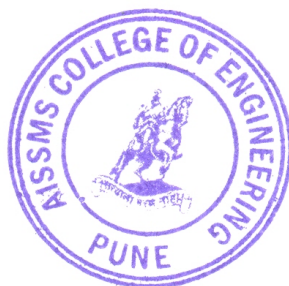
☐ 8

☐ 9

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www.aiissmscoe.com



TEACHING PLAN (TP)

NAME OF FACULTY : DR. BHANUDAS D BACHCHHAV,

COURSE AND CODE : Mechanical Engineering-MECH

SEMESTER : SEMESTER 8

SUBJECT NAME: Elective - V A Quality and Reliability Engineering-QRE

SUBJECT CODE : 402050A

DIVISION : A

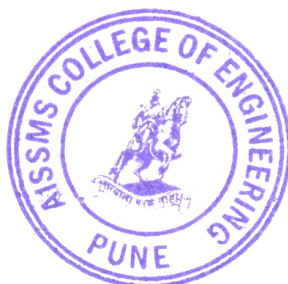
| Lect No. | Contents to be Covered | Content Delivery Methods(CDM) used | COs Mapping to the Contents | Proposed Date | Conducted Date | Remarks |
|----------|--|--|-----------------------------|---------------|----------------|---------|
| 1 | Introduction to subject | | | 25/01/2023 | 25/01/2023 | |
| 2 | Introduction to Quality and Quality Tools | Discussion with students | CO1 | 30/01/2023 | 30/01/2023 | |
| 3 | Precision and accuracy, Quality dimensions, Statements | Lecture with interaction | CO1 | 01/02/2023 | 01/02/2023 | |
| 4 | Cost of quality & value of quality, Deming's cycles & 14 Points, Juran Trilogy approach, | Lecture with interaction, Presentation | CO1 | 02/02/2023 | 02/02/2023 | |
| 5 | Seven Quality Tools | Lecture with interaction, Group Discussion | CO1 | 06/02/2023 | 06/02/2023 | |
| 6 | N Seven Tools | Lecture with interaction, Group Discussion | CO1 | 08/02/2023 | 08/03/2023 | |
| 7 | Quality Circle, 5S, Kaizen, | Discussion with students, Presentation | CO1 | 09/02/2023 | 09/02/2023 | |
| 8 | Poka yoke, Kanban, JIT | Discussion with students, Lecture with interaction, Presentation | CO1 | 09/02/2023 | 13/02/2023 | |
| 9 | QMS, Criteria for Quality Award | Discussion with students, Lecture with interaction | CO1 | 15/02/2023 | 15/02/2023 | |
| 10 | Statistical concept, Frequency diagram, Concept of variance analysis | Lecture with interaction | CO2 | 16/02/2023 | 15/02/2023 | |
| 11 | Control Charts X Bar | Lecture with interaction | CO2 | 20/02/2023 | 16/02/2023 | |
| 12 | Control Chart R | Lecture with interaction | CO2 | 22/02/2023 | 20/02/2023 | |
| 13 | Control Chart (P & C Chart) | Lecture with interaction | CO2 | 23/02/2023 | 22/02/2023 | |
| 14 | Process capability (Indices: cp, cpk, ppk), | Lecture with interaction | CO2 | 06/03/2023 | 23/02/2023 | |
| 15 | Statistical Process Control and six sigma | Lecture with interaction | CO2 | 08/03/2023 | 06/03/2023 | |
| 16 | Acceptance Sampling: Sampling Inspection, OC Curve and its characteristics | Lecture with interaction | CO2 | 09/03/2023 | 09/03/2023 | |
| 17 | Sampling Plans, calculation of sample size, | Lecture with interaction | CO2 | 13/03/2023 | 13/03/2023 | |
| 18 | AOQ, Probability of acceptance | Lecture with interaction | CO2 | 16/03/2023 | 16/03/2023 | |
| 19 | Reliability definitions, failure, failure density, failure Rate, hazard rate | Lecture with interaction | CO3 | 20/03/2023 | | |
| 20 | MTTF, MTBF, pdf, cdf, safety and reliability | Lecture with interaction | CO3 | 23/03/2023 | 27/04/2023 | |
| 21 | life characteristic phases, modes of failure | Lecture with interaction | CO3 | 27/03/2023 | 20/03/2023 | |



| Lect No. | Contents to be Covered | Content Delivery Methods(CDM) used | COs Mapping to the Contents | Proposed Date | Conducted Date | Remarks |
|----------|--|------------------------------------|-----------------------------|---------------|----------------|---------|
| 22 | areas of reliability, quality and reliability assurance rules | Lecture with interaction | CO3 | 29/03/2023 | 23/03/2023 | |
| 23 | importance of reliability, Uncertainty analysis | Lecture with interaction | CO3 | 03/04/2023 | 27/03/2023 | |
| 24 | Probability theory and probability distributions, Numerical | Lecture with interaction | CO3 | 05/04/2023 | 29/03/2023 | |
| 25 | System Reliability & Allocation Techniques | Lecture with interaction | CO4 | 06/04/2023 | 12/04/2023 | |
| 26 | Series, parallel, mixed configuration | Lecture with interaction | CO4 | 10/04/2023 | 13/04/2023 | |
| 27 | k- out of n structure | Lecture with interaction | CO4 | 12/04/2023 | 17/04/2023 | |
| 28 | analysis of complex systems, conditional probability method, | Lecture with interaction | CO4 | 13/04/2023 | 19/04/2023 | |
| 29 | cut set and tie set method, | Lecture with interaction | CO4 | 17/04/2023 | 20/04/2023 | |
| 30 | Reliability allocation or apportionment, reliability apportionment techniques - equal apportionment, | Lecture with interaction | CO4 | 19/04/2023 | 24/04/2023 | |
| 31 | AGREE Method | Lecture with interaction | CO4 | 20/04/2023 | 26/04/2023 | |
| 32 | ARINC Method | Lecture with interaction | CO4 | 24/04/2023 | 26/04/2023 | |
| 33 | reliability predictions from predicted unreliability, minimum effort method | Lecture with interaction | CO4 | 26/04/2023 | 03/05/2023 | |
| 34 | FMEA | Lecture with interaction | CO5 | 27/04/2023 | 04/05/2023 | |
| 35 | FMECA | Lecture with interaction | CO5 | 03/05/2023 | 08/05/2023 | |
| 36 | RPN, Basic symbols | Lecture with interaction | CO5 | 04/05/2023 | 10/05/2023 | |
| 37 | Ishikawa diagram for failure representation | Lecture with interaction | CO5 | 08/05/2023 | 11/05/2023 | |
| 38 | Fault Tree construction and analysis - case studies | Lecture with interaction | CO5 | 10/05/2023 | 11/05/2023 | |
| 39 | minimal cut & tie set methods | Lecture with interaction | CO5 | 11/05/2023 | | |
| 40 | Objectives & types of maintenance, Maintainability, factors affecting maintainability | Lecture with interaction | CO6 | 15/05/2023 | | |
| 41 | system down time, availability - inherent, achieved and operational availability, | Lecture with interaction | CO6 | 17/05/2023 | | |
| 42 | Reliability Centered Maintenance | Lecture with interaction | CO6 | 18/05/2023 | | |
| 43 | Accelerated Life Testing | Lecture with interaction | CO6 | 22/05/2023 | | |

FACULTY : DR. BHANUDAS D BACHCHHAV,

HOD :



IL

ACADEMIC COORDINATOR :



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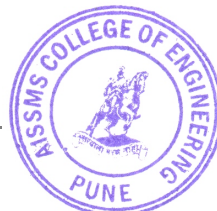
Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: contact@aissmscoe.com, principal@aissmscoe.com
www.aissmscoe.com

SESSION PLAN (lectures) REPORT

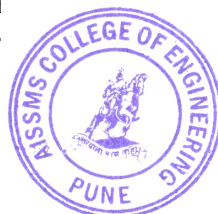
| | |
|--|--|
| Course : Electrical Engineering | Course Code : EL- |
| Class : SE | Division : A |
| No. of lectures per week assigned by University : 3 | No. of lectures per week planned : 36 |
| Name Of the Teacher : Mr. SANDEEP MOTILAL CHAUDHARI | Total no. of lectures planned : 36 |

| | |
|--------------------------------------|---------------------------------------|
| Signature of subject teacher: | Academic co-ordinator of Dept: |
| HOD : | ACADEMIC COORDINATOR : |

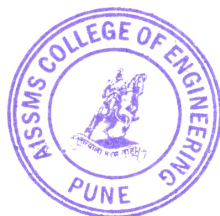
| Lecture No./NoOfWeek | Name of Topic/ Experiment planned | Planned date | Execution date | Delivery Modes (M) | Student centric methods used for enhanced learning (A) | Details of ICT, LMS, E learning resources used (B) | Applicable COS |
|----------------------|--|--------------|----------------|---|--|--|----------------|
| 1 | Introduction | 13-02-2023 | 13-02-2023 | M1:Discussion with students | A1:Field visits,A4:Team Projects | B2:PPT | CO1 |
| 2 | Ittroduction,fundamentals, laws-Test No-01 - Prerequisites | 14-02-2023 | 14-02-2023 | M1:Discussion with students | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 3 | Power system SLD-Elaboration | 15-02-2023 | 15-02-2023 | M1:Discussion with students | A1:Field visits,A4:Team Projects | | CO1 |
| 4 | Connected load, Maximum demand, Demand factor | 08-03-2023 | 15-02-2023 | M2:Lecture with interaction | A9:Use of different techniques for evaluation of assignment /experiments such as – online quiz | B5:Other e – learning resources | CO1,CO2 |
| 5 | Average load, Load factor, Diversity factor, Plant capacity factor, Reserve capacity, Plant use factor.Numericals,Load curve, Load duration curve, Concept of base load and peak load stations, Advantages of interconnected grid system | 15-03-2023 | 08-03-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 6 | Fitting of available generating station into the area load duration curve | 20-03-2023 | 11-04-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2,CO3 |
| 7 | Introduction of Tariff, Tariff setting principles, desirable characteristics of tariff, various consumer categories and implemented tariff such as two part tariff, three part tariff(Numerical on two part and three part tariff), | 21-03-2023 | 27-03-2023 | M6:Demonstration(throughModels,chart,videos etc.) | A1:Field visits,A3:Simulations | B5:Other e – learning resources | CO1,CO2 |



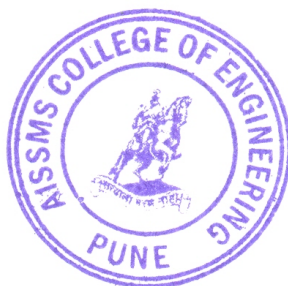
| Lecture No./NoOfWeek | Name of Topic/ Experiment planned | Planned date | Execution date | Delivery Modes (M) | Student centric methods used for enhanced learning (A) | Details of ICT, LMS, E learning resources used (B) | Applicable COS |
|----------------------|--|--------------|----------------|---|--|--|----------------|
| 8 | Time of day tariff for H.T and L.T industrial and commercial consumers, Introduction to Availability based tariff (ABT), kVAh tariff. Unit 2-Introduction. ratings of various equipment used in power station, Special features, field of use of equipment like alternators, necessity of exciters, various excitation systems such as dc excitation | 22-03-2023 | 27-03-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 9 | Power transformers, voltage regulators, bus-bars, current limiting reactors, circuit breakers, protective relays. Current transformers, potential transformers, Lightning arresters, Earthing switches, isolators, Carrier current equipment's (P.L.C.C) | 27-03-2023 | 27-03-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 10 | Control panels, battery rooms, metering and other control room equipment in generating station. | 28-03-2023 | 28-03-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 11 | Underground Cables: Construction of Cables, Classification of cables, XLPE cables, Capacitance of single core and three core cable, Dielectric stresses in single core cable | 29-03-2023 | 31-03-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 12 | Grading of cables, inter sheath grading, capacitance grading,Numerical | 03-04-2023 | 31-03-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO1,CO2 |
| 13 | Overhead Line Insulators- Introduction | 11-04-2023 | 17-04-2023 | M2:Lecture with interaction,M3:Presentation | A1:Field visits,A3:Simulations | B2:PPT | CO3 |
| 14 | Types of Line supports, poles-wooden, steel,Towers | 12-04-2023 | 18-04-2023 | M2:Lecture with interaction,M3:Presentation | A1:Field visits,A3:Simulations | B2:PPT | CO3 |
| 15 | Types of insulators, its construction and their applications such as Pin type, Suspension type, Strain type, Shackle type, Post insulators, bushing | 17-04-2023 | 19-04-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO3 |
| 16 | Potential distribution over suspension insulators, String efficiency | 18-04-2023 | 25-04-2023 | M2:Lecture with interaction | A1:Field visits | B2:PPT | CO3 |
| 17 | Numerical on string efficiency | 19-04-2023 | 26-04-2023 | M2:Lecture with | A1:Field visits,A3:Simulations | B2:PPT | CO3 |



| Lecture No./ NoOfWeek | Name of Topic/ Experiment planned | Planned date | Execution date | Delivery Modes (M) | Student centric methods used for enhanced learning (A) | Details of ICT, LMS, E learning resources used (B) | Applicable COS |
|--------------------------|--|--------------|----------------|-----------------------------|--|--|----------------|
| 18 | Methods of improving string efficiency ,A) Mechanical Design of Overhead lines: Main components of overhead lines, Various types of line supports, Conductor spacing, Length of span | 24-04-2023 | 27-04-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO3 |
| 19 | Calculation of sag for equal and unequal supports and effect of ice and wind loading. | 25-04-2023 | 02-05-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | | CO3 |
| 20 | Resistance of transmission line, Skin effect and proximity effect, Factors responsible for production of these effects, Internal and external flux linkages of single conductor | 26-04-2023 | 16-05-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO4 |
| 21 | Inductance of single phase two wire line, Necessity of transposition | 01-05-2023 | 17-05-2023 | M2:Lecture with interaction | A1:Field visits,A3:Simulations | B2:PPT | CO4 |
| 22 | unsymmetrical spacing with transposition,-Derivations | 02-05-2023 | 23-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B5:Other e – learning resources | CO4 |
| 23 | Derivation continued fro Unsymmetrical Spacing | 03-05-2023 | 23-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B5:Other e – learning resources | CO4 |
| 24 | Concept of G.M.R and G.M.D, Inductance of bundled conductors. | 08-05-2023 | 23-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B2:PPT | CO4 |
| 25 | Classification of lines based on length and voltage levels such as short, medium and long lines | 09-05-2023 | 08-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B5:Other e – learning resources | CO6 |
| 26 | Performance of short transmission lines with voltage current relationship and phasor diagram, Representation of medium lines | 10-05-2023 | 08-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B2:PPT | CO6 |
| 27 | Nominal ? and Nominal T circuits | 15-05-2023 | 15-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B2:PPT | CO6 |
| 28 | Representation of T and ? models of lines as two port networks, Evaluation and estimation of generalized circuit constants (ABCD) | 16-05-2023 | 22-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | | CO6 |
| 29 | Numerical | 17-05-2023 | 15-05-2023 | M3:Presentation | A1:Field visits,A4:Team Projects | | CO6 |
| 30 | Numerical | 22-05-2023 | 17-05-2023 | M3:Presentation | A1:Field visits,A4:Team Projects | | CO6 |



| Lecture No./ NoOfWeek | Name of Topic/ Experiment planned | Planned date | Execution date | Delivery Modes (M) | Student centric methods used for enhanced learning (A) | Details of ICT, LMS, E learning resources used (B) | Applicable COS |
|--|---|--------------|----------------|-----------------------------|--|--|----------------|
| 31 | Estimation of efficiency and regulation of short and medium lines,Numerical | 23-05-2023 | 17-05-2023 | M3:Presentation | A1:Field visits,A4:Team Projects | | CO6 |
| 32 | Capacitance of Transmission Line- Electric potential at single charged conductor, Potential at conductor in a group of charged conductors, Capacitance of single phase line | 24-05-2023 | 23-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B2:PPT | CO5 |
| 33 | Capacitance of single phase line with effect of earth s surface on electric field, Concept of G.M.R and G.M.D for capacitance calculations, need of transposition for capacitance calculations, | 29-05-2023 | 23-05-2023 | M2:Lecture with interaction | A1:Field visits,A4:Team Projects | B2:PPT | CO5 |
| 34 | Capacitance of three phase line with symmetrical and unsymmetrical spacing with transposition. Capacitance of single circuit and double circuit three phase line with symmetrical arrangement | 30-05-2023 | 03-05-2023 | | A1:Field visits,A4:Team Projects | B2:PPT | CO5 |
| 35 | Capacitance of unsymmetrical spacing arrangement | 31-05-2023 | 10-05-2023 | | A1:Field visits,A4:Team Projects | B2:PPT | CO5 |
| 36 | Conclusion of syllabus And Discussion | 01-06-2023 | | | A14:None | B2:PPT | CO5 |
| Remedial classes/practicals planned | | | | | | | |





AISSMS COLLEGE OF ENGINEERING

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www.aiissmscoe.com

Department Of Electrical Engineering

Academic Year: 2022-2023 Semester: SEMESTER 3

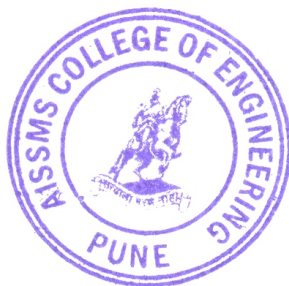
THEORY & PRACTICAL ATTENDANCE RECORD

DATE : 01/06/2022 TO 31/12/2022

CLASS : SE

DIVISION : A

| ROLL NO | STUDENT NAME | Theory | | | | | | | | | | Theory % | SIGN | | |
|---------|-----------------------------|--------|-----|-----|-----|--------|-----|----|-----|-----|-----|----------|------|---------------------|----------------------|
| | | PGT | | ADE | | EM-III | | MS | | EMI | | | | Total Attended (TH) | Total Conducted (TH) |
| | | 35 | % | 37 | % | 40 | % | 27 | % | 35 | % | | | | |
| 21EL201 | AISHWARYA RAJESHWAR KOKATE | 30 | 86 | 36 | 97 | 38 | 95 | 26 | 96 | 29 | 83 | 159 | 174 | 91 | |
| 21EL001 | AMIR HAMZA | 27 | 77 | 32 | 86 | 35 | 88 | 21 | 78 | 27 | 77 | 142 | 174 | 82 | |
| 21EL002 | ANJANA B RAJAN | 31 | 89 | 34 | 92 | 36 | 90 | 21 | 78 | 31 | 89 | 153 | 174 | 88 | |
| 22EL301 | AWASARMAL BHAVANA RAMESH | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL003 | BHAGAT SAMRUDDHI MAHENDRA | 27 | 77 | 29 | 78 | 33 | 82 | 20 | 74 | 22 | 63 | 131 | 174 | 75 | |
| 21EL004 | BIDGAR CHETAN UTTAM | 23 | 66 | 23 | 62 | 27 | 68 | 14 | 52 | 24 | 69 | 111 | 174 | 64 | |
| 21EL005 | BURKUL ABHIJIT BABAN | 30 | 86 | 32 | 86 | 34 | 85 | 22 | 81 | 28 | 80 | 146 | 174 | 84 | |
| 21EL006 | CHAITANYA PATIL | 29 | 83 | 29 | 78 | 29 | 72 | 17 | 63 | 22 | 63 | 126 | 174 | 72 | |
| 21EL007 | DEOKAR SAKSHI VIKRAM | 32 | 91 | 32 | 86 | 34 | 85 | 22 | 81 | 28 | 80 | 148 | 174 | 85 | |
| 21EL008 | DEOLIKAR AARYA AJIT | 21 | 60 | 26 | 70 | 28 | 70 | 15 | 56 | 32 | 91 | 122 | 174 | 70 | |
| 21EL009 | DESALE TANAYA KAILAS | 25 | 71 | 28 | 76 | 27 | 68 | 20 | 74 | 28 | 80 | 128 | 174 | 74 | |
| 22EL302 | GADE BHAGYASHREE DHANANJAY | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL010 | GADHEKAR PRASAD RAMESH | 26 | 74 | 34 | 92 | 33 | 82 | 19 | 70 | 30 | 86 | 142 | 174 | 82 | |
| 21EL011 | GHATGE POOJA RAJESH | 28 | 80 | 29 | 78 | 24 | 60 | 16 | 59 | 28 | 80 | 125 | 174 | 72 | |
| 21EL012 | GHODMARE KASTURI HEMANT | 29 | 83 | 30 | 81 | 32 | 80 | 18 | 67 | 28 | 80 | 137 | 174 | 79 | |
| 21EL013 | GHOLAP OM ADESH | 28 | 80 | 27 | 73 | 30 | 75 | 19 | 70 | 24 | 69 | 128 | 174 | 74 | |
| 21EL014 | GOLE VAISHNAVI RAHUL | 26 | 74 | 30 | 81 | 38 | 95 | 26 | 96 | 31 | 89 | 151 | 174 | 87 | |
| 21EL015 | GUNDECHA DARSHAN SUSHIL | 22 | 63 | 27 | 73 | 28 | 70 | 15 | 56 | 26 | 74 | 118 | 174 | 68 | |
| 21EL016 | HAKE SAKSHI GAJANANAN | 26 | 74 | 19 | 51 | 29 | 72 | 17 | 63 | 28 | 80 | 119 | 174 | 68 | |
| 21EL017 | INDAVAT PRERANA NARPATSINGH | 35 | 100 | 36 | 97 | 39 | 98 | 25 | 93 | 34 | 97 | 169 | 174 | 97 | |
| 21EL018 | INGLE KHUSHI PRAMOD | 28 | 80 | 25 | 68 | 29 | 72 | 20 | 74 | 25 | 71 | 127 | 174 | 73 | |
| 21EL019 | INGOLE PALASH ATMARAM | 29 | 83 | 27 | 73 | 30 | 75 | 19 | 70 | 24 | 69 | 129 | 174 | 74 | |
| 21EL020 | JAGTAP OM PRAFULLA | 22 | 63 | 28 | 76 | 32 | 80 | 13 | 48 | 29 | 83 | 124 | 174 | 71 | |
| 21EL021 | KADAM CHETAN BAHU | 27 | 77 | 31 | 84 | 30 | 75 | 17 | 63 | 24 | 69 | 129 | 174 | 74 | |
| 21EL022 | KADAM PRATIK UMESH | 19 | 54 | 23 | 62 | 26 | 65 | 17 | 63 | 22 | 63 | 107 | 174 | 61 | |
| 21EL023 | KAKADE ADITYA RAJENDRA | 24 | 69 | 28 | 76 | 32 | 80 | 21 | 78 | 27 | 77 | 132 | 174 | 76 | |
| 21EL024 | KAMBLE RIDDHEESH ATMARAM | 23 | 66 | 24 | 65 | 31 | 78 | 15 | 56 | 25 | 71 | 118 | 174 | 68 | |
| 22EL303 | KATE ARYA VIJAY | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL025 | KHARADE ADITYA RAVINDRAK | 25 | 71 | 25 | 68 | 21 | 52 | 12 | 44 | 19 | 54 | 102 | 174 | 59 | |
| 21EL026 | KOKATE SHWETA BAPUSAHEB | 27 | 77 | 34 | 92 | 33 | 82 | 21 | 78 | 31 | 89 | 146 | 174 | 84 | |
| 21EL027 | KORDE PRATHAMESH SANJAY | 31 | 89 | 37 | 100 | 37 | 92 | 24 | 89 | 35 | 100 | 164 | 174 | 94 | |
| 22EL304 | KOSHTI ANIKET PRAVIN | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL028 | KULKARNI ADITI ASHUTOSH | 32 | 91 | 31 | 84 | 32 | 80 | 23 | 85 | 33 | 94 | 151 | 174 | 87 | |
| 22EL305 | KURADE SANIKA VISHWAS | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL029 | MADAVI AKSHAY KUNTAKE | 29 | 83 | 30 | 81 | 29 | 72 | 20 | 74 | 27 | 77 | 135 | 174 | 78 | |
| 21EL030 | MALGUNDE PRATHAMESH SUN | 29 | 83 | 33 | 89 | 35 | 88 | 24 | 89 | 29 | 83 | 150 | 174 | 86 | |
| 21EL031 | MHASKE JAY SANTOSH | 22 | 63 | 25 | 68 | 29 | 72 | 14 | 52 | 27 | 77 | 117 | 174 | 67 | |
| 21EL032 | MOON AMAN DHARAMPAL | 32 | 91 | 30 | 81 | 37 | 92 | 23 | 85 | 30 | 86 | 152 | 174 | 87 | |



| ROLL NO | STUDENT NAME | Theory | | | | | | | | | | Total Attended (TH) | Total Conducted (TH) | Theory % | SIGN |
|---------|---------------------------|--------|-----|-----|-----|--------|-----|----|-----|-----|-----|---------------------|----------------------|----------|------|
| | | PGT | | ADE | | EM-III | | MS | | EMI | | | | | |
| | | 35 | % | 37 | % | 40 | % | 27 | % | 35 | % | | | | |
| 21EL033 | MUNDE VEDANT SURESH | 27 | 77 | 24 | 65 | 32 | 80 | 18 | 67 | 27 | 77 | 128 | 174 | 74 | |
| 21EL034 | NAGARE SAKSHI SHARAD | 28 | 80 | 26 | 70 | 33 | 82 | 15 | 56 | 23 | 66 | 125 | 174 | 72 | |
| 21EL035 | NANAWARE APURV RAMCHANDRA | 29 | 83 | 26 | 70 | 30 | 75 | 15 | 56 | 27 | 77 | 127 | 174 | 73 | |
| 21EL037 | PANCHAL TEJAS RAJNIKANT | 29 | 83 | 23 | 62 | 32 | 80 | 17 | 63 | 28 | 80 | 129 | 174 | 74 | |
| 22EL306 | PANVAL VAIBHAVI JITENDRA | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL202 | PARDIKAR MUKTA RAJENDRA | 35 | 100 | 36 | 97 | 39 | 98 | 26 | 96 | 34 | 97 | 170 | 174 | 98 | |
| 21EL038 | PATARE SIDHARTH SUDHAKAR | 30 | 86 | 27 | 73 | 34 | 85 | 22 | 81 | 31 | 89 | 144 | 174 | 83 | |
| 21EL039 | PATBHAJE EKTA ANANT | 29 | 83 | 30 | 81 | 28 | 70 | 13 | 48 | 26 | 74 | 126 | 174 | 72 | |
| 21EL040 | PATIL AARYA NARAYAN | 20 | 57 | 18 | 49 | 22 | 55 | 12 | 44 | 18 | 51 | 90 | 174 | 52 | |
| 21EL041 | PATIL ATHARV ANKUSH | 14 | 40 | 11 | 30 | 16 | 40 | 11 | 41 | 15 | 43 | 67 | 174 | 39 | |
| 21EL042 | PATIL BHAVESH CHANDRAKANT | 20 | 57 | 16 | 43 | 19 | 48 | 12 | 44 | 15 | 43 | 82 | 174 | 47 | |
| 22EL307 | PATIL PARTH VIJAYKUMAR | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 33 | 94 | 172 | 174 | 99 | |
| 21EL043 | PATIL RUTIK SANJAY | 22 | 63 | 24 | 65 | 25 | 62 | 18 | 67 | 24 | 69 | 113 | 174 | 65 | |
| 21EL044 | PATIL YUGANDHAR AMAR | 24 | 69 | 29 | 78 | 26 | 65 | 20 | 74 | 24 | 69 | 123 | 174 | 71 | |
| 21EL045 | PATL NIRAJ HIRALAL | 15 | 43 | 16 | 43 | 21 | 52 | 8 | 30 | 22 | 63 | 82 | 174 | 47 | |
| 21EL046 | PHADNIS KHANJANA UTKARSH | 23 | 66 | 22 | 59 | 31 | 78 | 15 | 56 | 26 | 74 | 117 | 174 | 67 | |
| 21EL047 | POTE VAISHNAVI BABASAHEB | 22 | 63 | 13 | 35 | 23 | 57 | 13 | 48 | 16 | 46 | 87 | 174 | 50 | |
| 21EL048 | RANPISE SHWETANK DEEPAK | 13 | 37 | 11 | 30 | 17 | 42 | 9 | 33 | 15 | 43 | 65 | 174 | 37 | |
| 21EL049 | RATHOD AMIT ABASAHEB | 24 | 69 | 27 | 73 | 27 | 68 | 17 | 63 | 23 | 66 | 118 | 174 | 68 | |
| 21EL050 | RIKIBE NIRAJ RAMESH | 28 | 80 | 29 | 78 | 34 | 85 | 20 | 74 | 30 | 86 | 141 | 174 | 81 | |
| 21EL051 | SAKSHANT BHAGWAN VITEKAR | 16 | 46 | 20 | 54 | 19 | 48 | 12 | 44 | 23 | 66 | 90 | 174 | 52 | |
| 21EL052 | SARVESH MADHUKAR YADAV | 27 | 77 | 23 | 62 | 26 | 65 | 19 | 70 | 24 | 69 | 119 | 174 | 68 | |
| 21EL053 | SHEDAGE OMKAR SANJAY | 26 | 74 | 25 | 68 | 30 | 75 | 19 | 70 | 23 | 66 | 123 | 174 | 71 | |
| 21EL054 | SHEWALE DARSHAN SAHEBRAO | 28 | 80 | 29 | 78 | 34 | 85 | 19 | 70 | 28 | 80 | 138 | 174 | 79 | |
| 21EL055 | SOLANKI SAHIL KUNDANSING | 27 | 77 | 27 | 73 | 31 | 78 | 21 | 78 | 27 | 77 | 133 | 174 | 76 | |
| 21EL056 | SONAWANE AADITYA ANIL | 19 | 54 | 15 | 41 | 26 | 65 | 13 | 48 | 17 | 49 | 90 | 174 | 52 | |
| 21EL057 | SONKUL PRATIK SUDHIR | 21 | 60 | 22 | 59 | 25 | 62 | 13 | 48 | 15 | 43 | 96 | 174 | 55 | |
| 21EL058 | SURWADE PRAJAKTA MANOHAR | 24 | 69 | 27 | 73 | 29 | 72 | 18 | 67 | 26 | 74 | 124 | 174 | 71 | |
| 21EL059 | SUTAR UDAY NAMDEV | 22 | 63 | 23 | 62 | 28 | 70 | 20 | 74 | 17 | 49 | 110 | 174 | 63 | |
| 22EL308 | TADAVI SAHIL RAFIK | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 21EL060 | TAKALE RUTURAJ BHIWAJI | 26 | 74 | 28 | 76 | 28 | 70 | 19 | 70 | 25 | 71 | 126 | 174 | 72 | |
| 21EL061 | TANAYA SHRIKANT SABADE | 30 | 86 | 31 | 84 | 37 | 92 | 21 | 78 | 27 | 77 | 146 | 174 | 84 | |
| 21EL062 | TILEKAR SAHIL RAJESH | 25 | 71 | 24 | 65 | 32 | 80 | 20 | 74 | 23 | 66 | 124 | 174 | 71 | |
| 21EL063 | UDAVANT RUNAL RAVINDRA | 30 | 86 | 28 | 76 | 32 | 80 | 20 | 74 | 25 | 71 | 135 | 174 | 78 | |
| 21EL064 | UMBARKAR SWARAJ NARAYAN | 26 | 74 | 29 | 78 | 32 | 80 | 17 | 63 | 23 | 66 | 127 | 174 | 73 | |
| 21EL065 | VYAS NEEL NAVIN | 22 | 63 | 22 | 59 | 25 | 62 | 13 | 48 | 20 | 57 | 102 | 174 | 59 | |
| 22EL309 | WAGHMARE SAMARTH ARUN | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 35 | 100 | 174 | 174 | 100 | |
| 22EL310 | WANAVE PRATIKSHA NAVNATH | 35 | 100 | 37 | 100 | 40 | 100 | 27 | 100 | 34 | 97 | 173 | 174 | 99 | |





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www.aissmscoe.com

Department Of Electrical Engineering

Academic Year: 2022-2023 Semester: SEMESTER 3

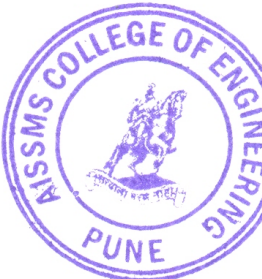
THEORY & PRACTICAL ATTENDANCE RECORD

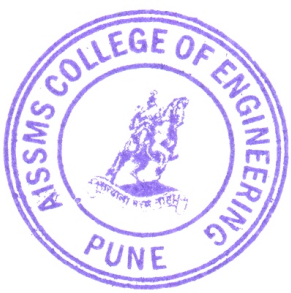
DATE : 01/06/2022 TO 31/12/2022

CLASS : SE

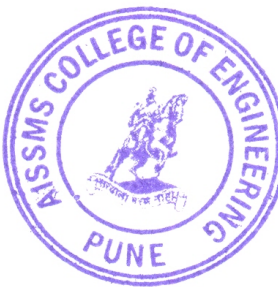
DIVISION : A

| ROLL NO | STUDENT NAME | Practical | | | | | | | | | | | | | | | | | | Practical % | Tutorial | | Tutorial % | SIGN |
|---------|-----------------------------|-----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|---------------------|----------------------|---------------------|-------------|----------------------|---|------------|------|
| | | SS | | | ADE | | | EM-III | | | MS | | | EMI | | | Total Attended (PR) | Total Conducted (PR) | Total Attended (TU) | | Total Conducted (TU) | | | |
| | | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | | | | | | | | |
| 21EL201 | AISHWARYA RAJESHWAR KOKATE | 4 | 4 | 100 | 6 | 6 | 100 | 4 | 4 | 100 | 0 | 0 | 0 | 11 | 11 | 100 | 25 | 25 | 100 | 0 | 0 | 0 | | |
| 21EL001 | AMIR HAMZA | 9 | 12 | 75 | 10 | 12 | 83 | 10 | 12 | 83 | 11 | 15 | 73 | 17 | 21 | 81 | 57 | 72 | 79 | 0 | 0 | 0 | | |
| 21EL002 | ANJANA B RAJAN | 11 | 12 | 92 | 11 | 12 | 92 | 10 | 12 | 83 | 12 | 15 | 80 | 18 | 21 | 86 | 62 | 72 | 86 | 0 | 0 | 0 | | |
| 22EL301 | AWASARMAL BHAVANA RAMESH | 4 | 4 | 100 | 6 | 6 | 100 | 3 | 4 | 75 | 0 | 0 | 0 | 11 | 11 | 100 | 24 | 25 | 96 | 0 | 0 | 0 | | |
| 21EL003 | BHAGAT SAMRUDDHI MAHENDRA | 8 | 12 | 67 | 8 | 12 | 67 | 8 | 12 | 67 | 10 | 15 | 67 | 18 | 21 | 86 | 52 | 72 | 72 | 0 | 0 | 0 | | |
| 21EL004 | BIDGAR CHETAN UTTAM | 5 | 12 | 42 | 7 | 12 | 58 | 5 | 12 | 42 | 8 | 15 | 53 | 10 | 21 | 48 | 35 | 72 | 49 | 0 | 0 | 0 | | |
| 21EL005 | BURKUL ABHIJIT BABAN | 9 | 12 | 75 | 8 | 12 | 67 | 11 | 12 | 92 | 13 | 15 | 87 | 18 | 21 | 86 | 59 | 72 | 82 | 0 | 0 | 0 | | |
| 21EL006 | CHAITANYA PATIL | 10 | 12 | 83 | 10 | 12 | 83 | 8 | 12 | 67 | 13 | 15 | 87 | 18 | 21 | 86 | 59 | 72 | 82 | 0 | 0 | 0 | | |
| 21EL007 | DEOKAR SAKSHI VIKRAM | 10 | 12 | 83 | 10 | 12 | 83 | 10 | 12 | 83 | 13 | 15 | 87 | 18 | 21 | 86 | 61 | 72 | 85 | 0 | 0 | 0 | | |
| 21EL008 | DEOLIKAR AARYA AJIT | 8 | 12 | 67 | 10 | 12 | 83 | 10 | 12 | 83 | 10 | 15 | 67 | 16 | 21 | 76 | 54 | 72 | 75 | 0 | 0 | 0 | | |
| 21EL009 | DESALE TANAYA KAILAS | 8 | 12 | 67 | 7 | 12 | 58 | 8 | 12 | 67 | 9 | 15 | 60 | 15 | 21 | 71 | 47 | 72 | 65 | 0 | 0 | 0 | | |
| 22EL302 | GADE BHAGYASHREE DHANANJAY | 4 | 4 | 100 | 6 | 6 | 100 | 3 | 4 | 75 | 0 | 0 | 0 | 11 | 11 | 100 | 24 | 25 | 96 | 0 | 0 | 0 | | |
| 21EL010 | GADHEKAR PRASAD RAMESH | 9 | 12 | 75 | 10 | 12 | 83 | 9 | 12 | 75 | 12 | 15 | 80 | 18 | 21 | 86 | 58 | 72 | 81 | 0 | 0 | 0 | | |
| 21EL011 | GHATGE POOJA RAJESH | 9 | 12 | 75 | 9 | 12 | 75 | 7 | 12 | 58 | 9 | 15 | 60 | 14 | 21 | 67 | 48 | 72 | 67 | 0 | 0 | 0 | | |
| 21EL012 | GHODMARE KASTURI HEMANT | 10 | 12 | 83 | 8 | 12 | 67 | 10 | 12 | 83 | 12 | 15 | 80 | 16 | 21 | 76 | 56 | 72 | 78 | 0 | 0 | 0 | | |
| 21EL013 | GHOLAP OM ADESH | 10 | 12 | 83 | 11 | 12 | 92 | 6 | 12 | 50 | 7 | 15 | 47 | 15 | 21 | 71 | 49 | 72 | 68 | 0 | 0 | 0 | | |
| 21EL014 | GOLE VAISHNAVI RAHUL | 11 | 12 | 92 | 9 | 12 | 75 | 11 | 12 | 92 | 11 | 15 | 73 | 17 | 21 | 81 | 59 | 72 | 82 | 0 | 0 | 0 | | |
| 21EL015 | GUNDECHA DARSHAN SUSHIL | 8 | 12 | 67 | 7 | 12 | 58 | 8 | 12 | 67 | 10 | 15 | 67 | 13 | 21 | 62 | 46 | 72 | 64 | 0 | 0 | 0 | | |
| 21EL016 | HAKS SAKSHI GAJANANAN | 7 | 12 | 58 | 9 | 12 | 75 | 4 | 12 | 33 | 9 | 15 | 60 | 14 | 21 | 67 | 43 | 72 | 60 | 0 | 0 | 0 | | |
| 21EL017 | INDAVAT PRERANA NARPATSINGH | 12 | 12 | 100 | 12 | 12 | 100 | 12 | 12 | 100 | 15 | 15 | 100 | 20 | 21 | 95 | 71 | 72 | 99 | 0 | 0 | 0 | | |
| 21EL018 | INGLE KHUSHI PRAMOD | 9 | 12 | 75 | 9 | 12 | 75 | 8 | 12 | 67 | 9 | 15 | 60 | 15 | 21 | 71 | 50 | 72 | 69 | 0 | 0 | 0 | | |
| 21EL019 | INGOLE PALASH ATMARAM | 10 | 12 | 83 | 8 | 12 | 67 | 10 | 12 | 83 | 12 | 15 | 80 | 16 | 21 | 76 | 56 | 72 | 78 | 0 | 0 | 0 | | |
| 21EL020 | JAGTAP OM PRAFULLA | 9 | 12 | 75 | 11 | 12 | 92 | 8 | 12 | 67 | 11 | 15 | 73 | 18 | 21 | 86 | 57 | 72 | 79 | 0 | 0 | 0 | | |
| 21EL021 | KADAM CHETAN BAHU | 8 | 12 | 67 | 9 | 12 | 75 | 8 | 12 | 67 | 10 | 15 | 67 | 15 | 21 | 71 | 50 | 72 | 69 | 0 | 0 | 0 | | |
| 21EL022 | KADAM PRATIK UMESH | 5 | 12 | 42 | 9 | 12 | 75 | 7 | 12 | 58 | 9 | 15 | 60 | 13 | 21 | 62 | 43 | 72 | 60 | 0 | 0 | 0 | | |
| 21EL023 | KAKADE ADITYA RAJENDRA | 9 | 12 | 75 | 9 | 12 | 75 | 11 | 12 | 92 | 13 | 15 | 87 | 18 | 21 | 86 | 60 | 72 | 83 | 0 | 0 | 0 | | |
| 21EL024 | KAMBLE RIDDHEESH ATMARAM | 7 | 12 | 58 | 10 | 12 | 83 | 6 | 12 | 50 | 8 | 15 | 53 | 16 | 21 | 76 | 47 | 72 | 65 | 0 | 0 | 0 | | |
| 22EL303 | KATE ARYA VIJAY | 4 | 4 | 100 | 6 | 6 | 100 | 3 | 4 | 75 | 0 | 0 | 0 | 8 | 11 | 73 | 21 | 25 | 84 | 0 | 0 | 0 | | |
| 21EL025 | KHARADE AJ | 3 | 12 | 67 | 9 | 12 | 75 | 7 | 12 | 58 | 10 | 15 | 67 | 12 | 21 | 57 | 46 | 72 | 64 | 0 | 0 | 0 | | |
| 21EL026 | KOKATE SHV | 0 | 12 | 83 | 12 | 12 | 100 | 11 | 12 | 92 | 12 | 15 | 80 | 19 | 21 | 90 | 64 | 72 | 89 | 0 | 0 | 0 | | |
| 21EL027 | KORDE PRAT | 0 | 12 | 83 | 12 | 12 | 100 | 12 | 12 | 100 | 14 | 15 | 93 | 21 | 21 | 100 | 69 | 72 | 96 | 0 | 0 | 0 | | |
| 22EL304 | KOSHTI ANIK | 3 | 4 | 75 | 6 | 6 | 100 | 3 | 4 | 75 | 0 | 0 | 0 | 11 | 11 | 100 | 23 | 25 | 92 | 0 | 0 | 0 | | |
| 21EL028 | KULKARNI A | 9 | 12 | 75 | 10 | 12 | 83 | 10 | 12 | 83 | 15 | 15 | 100 | 19 | 21 | 90 | 63 | 72 | 88 | 0 | 0 | 0 | | |
| 22EL305 | KURADE SAN | 3 | 4 | 75 | 6 | 6 | 100 | 4 | 4 | 100 | 0 | 0 | 0 | 11 | 11 | 100 | 24 | 25 | 96 | 0 | 0 | 0 | | |
| 21EL029 | MADAVI AKS | 9 | 12 | 75 | 7 | 12 | 58 | 9 | 12 | 75 | 13 | 15 | 87 | 16 | 21 | 76 | 54 | 72 | 75 | 0 | 0 | 0 | | |
| 21EL030 | MALGUNDE | 1 | 12 | 92 | 10 | 12 | 83 | 12 | 12 | 100 | 13 | 15 | 87 | 21 | 21 | 100 | 67 | 72 | 93 | 0 | 0 | 0 | | |
| 21EL031 | MHASKE JAY | 9 | 12 | 75 | 9 | 12 | 75 | 7 | 12 | 58 | 8 | 15 | 53 | 13 | 21 | 62 | 46 | 72 | 64 | 0 | 0 | 0 | | |
| 21EL032 | MOON AMAN | 1 | 12 | 92 | 10 | 12 | 83 | 11 | 12 | 92 | 14 | 15 | 93 | 19 | 21 | 90 | 65 | 72 | 90 | 0 | 0 | 0 | | |





| ROLL NO | STUDENT NAME | Practical | | | | | | | | | | | | | | | | | | Tutorial | | Tutorial % | SIGN |
|---------|---------------------------|-----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|----------|-----------|----|----------|-----------|-----|---------------------|----------------------|-------------|---------------------|----------------------|------------|------|
| | | SS | | | ADE | | | EM-III | | | MS | | | EMI | | | Total Attended (PR) | Total Conducted (PR) | Practical % | Total Attended (TU) | Total Conducted (TU) | | |
| | | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | | | | | | | |
| 21EL033 | MUNDE VEDANT SURESH | 10 | 12 | 83 | 8 | 12 | 67 | 10 | 12 | 83 | 12 | 15 | 80 | 17 | 21 | 81 | 57 | 72 | 79 | 0 | 0 | 0 | |
| 21EL034 | NAGARE SAKSHI SHARAD | 10 | 12 | 83 | 10 | 15 | 67 | 8 | 10 | 80 | 13 | 16 | 81 | 21 | 24 | 88 | 62 | 77 | 81 | 0 | 0 | 0 | |
| 21EL035 | NANAWARE APURV RAMCHANDRA | 10 | 12 | 83 | 11 | 15 | 73 | 8 | 10 | 80 | 13 | 16 | 81 | 16 | 24 | 67 | 58 | 77 | 75 | 0 | 0 | 0 | |
| 21EL037 | PANCHAL TEJAS RAJNIKANT | 10 | 12 | 83 | 13 | 15 | 87 | 9 | 10 | 90 | 11 | 16 | 69 | 21 | 24 | 88 | 64 | 77 | 83 | 0 | 0 | 0 | |
| 22EL306 | PANVAL VAIBHAVI JITENDRA | 3 | 4 | 75 | 6 | 6 | 100 | 3 | 4 | 75 | 0 | 0 | 0 | 11 | 11 | 100 | 23 | 25 | 92 | 0 | 0 | 0 | |
| 21EL202 | PARDIKAR MUKTA RAJENDRA | 2 | 4 | 50 | 6 | 6 | 100 | 2 | 4 | 50 | 0 | 0 | 0 | 7 | 11 | 64 | 17 | 25 | 68 | 0 | 0 | 0 | |
| 21EL038 | PATARE SIDHARTH SUDHAKAR | 12 | 12 | 100 | 12 | 15 | 80 | 7 | 10 | 70 | 11 | 16 | 69 | 18 | 24 | 75 | 60 | 77 | 78 | 0 | 0 | 0 | |
| 21EL039 | PATBHAJE EKTA ANANT | 11 | 12 | 92 | 12 | 15 | 80 | 8 | 10 | 80 | 15 | 16 | 94 | 18 | 24 | 75 | 64 | 77 | 83 | 0 | 0 | 0 | |
| 21EL040 | PATIL AARYA NARAYAN | 5 | 12 | 42 | 8 | 15 | 53 | 2 | 10 | 20 | 7 | 16 | 44 | 16 | 24 | 67 | 38 | 77 | 49 | 0 | 0 | 0 | |
| 21EL041 | PATIL ATHARV ANKUSH | 3 | 12 | 25 | 6 | 15 | 40 | 4 | 10 | 40 | 5 | 16 | 31 | 9 | 24 | 38 | 27 | 77 | 35 | 0 | 0 | 0 | |
| 21EL042 | PATIL BHAVESH CHANDRAKANT | 7 | 12 | 58 | 7 | 15 | 47 | 2 | 10 | 20 | 8 | 16 | 50 | 8 | 24 | 33 | 32 | 77 | 42 | 0 | 0 | 0 | |
| 22EL307 | PATIL PARTH VIJAYKUMAR | 4 | 4 | 100 | 2 | 6 | 33 | 3 | 4 | 75 | 0 | 0 | 0 | 3 | 11 | 27 | 12 | 25 | 48 | 0 | 0 | 0 | |
| 21EL043 | PATIL RUTIK SANJAY | 4 | 12 | 33 | 8 | 15 | 53 | 6 | 10 | 60 | 9 | 16 | 56 | 15 | 24 | 62 | 42 | 77 | 55 | 0 | 0 | 0 | |
| 21EL044 | PATIL YUGANDHAR AMAR | 9 | 12 | 75 | 8 | 15 | 53 | 6 | 10 | 60 | 8 | 16 | 50 | 17 | 24 | 71 | 48 | 77 | 62 | 0 | 0 | 0 | |
| 21EL045 | PATL NIRAJ HIRALAL | 4 | 12 | 33 | 9 | 15 | 60 | 3 | 10 | 30 | 4 | 16 | 25 | 4 | 24 | 17 | 24 | 77 | 31 | 0 | 0 | 0 | |
| 21EL046 | PHADNIS KHANJANA UTKARSH | 9 | 12 | 75 | 11 | 15 | 73 | 9 | 10 | 90 | 10 | 16 | 62 | 19 | 24 | 79 | 58 | 77 | 75 | 0 | 0 | 0 | |
| 21EL047 | POTE VAISHNAVI BABASAHEB | 6 | 12 | 50 | 7 | 15 | 47 | 5 | 10 | 50 | 8 | 16 | 50 | 12 | 24 | 50 | 38 | 77 | 49 | 0 | 0 | 0 | |
| 21EL048 | RANPISE SHWETANK DEEPAK | 6 | 12 | 50 | 6 | 15 | 40 | 4 | 10 | 40 | 2 | 16 | 12 | 9 | 24 | 38 | 27 | 77 | 35 | 0 | 0 | 0 | |
| 21EL049 | RATHOD AMIT ABASAHEB | 10 | 12 | 83 | 10 | 15 | 67 | 5 | 10 | 50 | 10 | 16 | 62 | 13 | 24 | 54 | 48 | 77 | 62 | 0 | 0 | 0 | |
| 21EL050 | RIKIBE NIRAJ RAMESH | 12 | 12 | 100 | 12 | 15 | 80 | 9 | 10 | 90 | 13 | 16 | 81 | 20 | 24 | 83 | 66 | 77 | 86 | 0 | 0 | 0 | |
| 21EL051 | SAKSHANT BHAGWAN VITEKAR | 5 | 12 | 42 | 5 | 15 | 33 | 2 | 10 | 20 | 6 | 16 | 38 | 6 | 24 | 25 | 24 | 77 | 31 | 0 | 0 | 0 | |
| 21EL052 | SARVESH MADHUKAR YADAV | 6 | 12 | 50 | 11 | 15 | 73 | 6 | 10 | 60 | 9 | 16 | 56 | 13 | 24 | 54 | 45 | 77 | 58 | 0 | 0 | 0 | |
| 21EL053 | SHEDAGE OMKAR SANJAY | 7 | 12 | 58 | 8 | 15 | 53 | 7 | 10 | 70 | 8 | 16 | 50 | 15 | 24 | 62 | 45 | 77 | 58 | 0 | 0 | 0 | |
| 21EL054 | SHEWALE DARSHAN SAHEBRAO | 9 | 12 | 75 | 13 | 15 | 87 | 9 | 10 | 90 | 13 | 16 | 81 | 19 | 24 | 79 | 63 | 77 | 82 | 0 | 0 | 0 | |
| 21EL055 | SOLANKI SAHIL KUNDANSING | 10 | 12 | 83 | 9 | 15 | 60 | 6 | 10 | 60 | 13 | 16 | 81 | 16 | 24 | 67 | 54 | 77 | 70 | 0 | 0 | 0 | |
| 21EL056 | SONAWANE AADITYA ANIL | 4 | 12 | 33 | 7 | 15 | 47 | 4 | 10 | 40 | 7 | 16 | 44 | 11 | 24 | 46 | 33 | 77 | 43 | 0 | 0 | 0 | |
| 21EL057 | SONKUL PRATIK SUDHIR | 6 | 12 | 50 | 5 | 15 | 33 | 3 | 10 | 30 | 7 | 16 | 44 | 6 | 24 | 25 | 27 | 77 | 35 | 0 | 0 | 0 | |
| 21EL058 | SURWADE PRAJAKTA MANOHAR | 10 | 12 | 83 | 12 | 15 | 80 | 8 | 10 | 80 | 14 | 16 | 88 | 19 | 24 | 79 | 63 | 77 | 82 | 0 | 0 | 0 | |
| 21EL059 | SUTAR UDAY NAMDEV | 9 | 12 | 75 | 12 | 15 | 80 | 6 | 10 | 60 | 13 | 16 | 81 | 15 | 24 | 62 | 55 | 77 | 71 | 0 | 0 | 0 | |
| 22EL308 | TADAVI SAHIL RAFIK | 3 | 4 | 75 | 5 | 6 | 83 | 4 | 4 | 100 | 0 | 0 | 0 | 11 | 11 | 100 | 23 | 25 | 92 | 0 | 0 | 0 | |
| 21EL060 | TAKALE RUTURAJ BHIWAJI | 9 | 12 | 75 | 13 | 15 | 87 | 6 | 10 | 60 | 13 | 16 | 81 | 17 | 24 | 71 | 58 | 77 | 75 | 0 | 0 | 0 | |
| 21EL061 | TANAYA SHRIKANT SABADE | 9 | 12 | 75 | 13 | 15 | 87 | 8 | 10 | 80 | 12 | 16 | 75 | 20 | 24 | 83 | 62 | 77 | 81 | 0 | 0 | 0 | |
| 21EL062 | TILEKAR SAHIL RAJESH | 9 | 12 | 75 | 11 | 15 | 73 | 8 | 10 | 80 | 11 | 16 | 69 | 17 | 24 | 71 | 56 | 77 | 73 | 0 | 0 | 0 | |
| 21EL063 | UDAVANT RUNAL RAVINDRA | 12 | 12 | 100 | 11 | 15 | 73 | 6 | 10 | 60 | 12 | 16 | 75 | 16 | 24 | 67 | 57 | 77 | 74 | 0 | 0 | 0 | |
| 21EL064 | UMBARKAR SWARAJ NARAYAN | 10 | 12 | 83 | 12 | 15 | 80 | 7 | 10 | 70 | 11 | 16 | 69 | 19 | 24 | 79 | 59 | 77 | 77 | 0 | 0 | 0 | |
| 21EL065 | VYAS NEEL NAVIN | 9 | 12 | 75 | 4 | 15 | 27 | 5 | 10 | 50 | 4 | 16 | 25 | 15 | 24 | 62 | 37 | 77 | 48 | 0 | 0 | 0 | |
| 22EL309 | WAGHMARE SAMARTH ARUN | 3 | 4 | 75 | 6 | 6 | 100 | 4 | 4 | 100 | 0 | 0 | 0 | 8 | 11 | 73 | 21 | 25 | 84 | 0 | 0 | 0 | |
| 22EL310 | WANAVE PRATIKSHA NAVNATH | 3 | 4 | 75 | 6 | 6 | 100 | 3 | 4 | 75 | 0 | 0 | 0 | 11 | 11 | 100 | 23 | 25 | 92 | 0 | 0 | 0 | |





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Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC(Id. No. PU/PN/Engg/093(1992))
Accredited by NAAC with 'A+' Grade

Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: contact@aiissmscoe.com, principal@aiissmscoe.com
www.aiissmscoe.com

Department Of Electrical Engineering

Academic Year: 2022-2023 Semester: SEMESTER 3

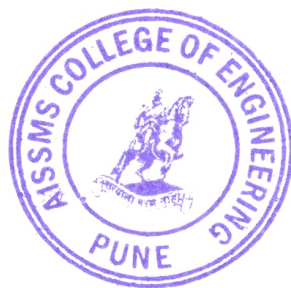
THEORY & PRACTICAL ATTENDANCE RECORD

DATE : 01/06/2022 TO 31/12/2022

CLASS : SE

DIVISION : A

| ROLL NO | STUDENT NAME | Other | | Other % | SIGN |
|---------|------------------------------|---------------------|----------------------|---------|------|
| | | Total Attended (TH) | Total Conducted (TH) | | |
| 21EL201 | AISHWARYA RAJESHWAR KOKATE | 0 | 0 | 0 | |
| 21EL001 | AMIR HAMZA | 0 | 0 | 0 | |
| 21EL002 | ANJANA B RAJAN | 0 | 0 | 0 | |
| 22EL301 | AWASARMAL BHAVANA RAMESH | 0 | 0 | 0 | |
| 21EL003 | BHAGAT SAMRUDDHI MAHENDRA | 0 | 0 | 0 | |
| 21EL004 | BIDGAR CHETAN UTTAM | 0 | 0 | 0 | |
| 21EL005 | BURKUL ABHIJIT BABAN | 0 | 0 | 0 | |
| 21EL006 | CHAITANYA PATIL | 0 | 0 | 0 | |
| 21EL007 | DEOKAR SAKSHI VIKRAM | 0 | 0 | 0 | |
| 21EL008 | DEOLIKAR AARYA AJIT | 0 | 0 | 0 | |
| 21EL009 | DESALE TANAYA KAILAS | 0 | 0 | 0 | |
| 22EL302 | GADE BHAGYASHREE DHANANJAY | 0 | 0 | 0 | |
| 21EL010 | GADHEKAR PRASAD RAMESH | 0 | 0 | 0 | |
| 21EL011 | GHATGE POOJA RAJESH | 0 | 0 | 0 | |
| 21EL012 | GHODMARE KASTURI HEMANT | 0 | 0 | 0 | |
| 21EL013 | GHOLAP OM ADESH | 0 | 0 | 0 | |
| 21EL014 | GOLE VAISHNAVI RAHUL | 0 | 0 | 0 | |
| 21EL015 | GUNDECHA DARSHAN SUSHIL | 0 | 0 | 0 | |
| 21EL016 | HAKS SAKSHI GAJANANAN | 0 | 0 | 0 | |
| 21EL017 | INDAVAT PRERANA NARPATSINGH | 0 | 0 | 0 | |
| 21EL018 | INGLE KHUSHI PRAMOD | 0 | 0 | 0 | |
| 21EL019 | INGOLE PALASH ATMARAM | 0 | 0 | 0 | |
| 21EL020 | JAGTAP OM PRAFULLA | 0 | 0 | 0 | |
| 21EL021 | KADAM CHETAN BAHU | 0 | 0 | 0 | |
| 21EL022 | KADAM PRATIK UMESH | 0 | 0 | 0 | |
| 21EL023 | KAKADE ADITYA RAJENDRA | 0 | 0 | 0 | |
| 21EL024 | KAMBLE RIDDHEESH ATMARAM | 0 | 0 | 0 | |
| 22EL303 | KATE ARYA VIJAY | 0 | 0 | 0 | |
| 21EL025 | KHARADE ADITYA RAVINDRAKUMAR | 0 | 0 | 0 | |
| 21EL026 | KOKATE SHWETA BAPUSAHEB | 0 | 0 | 0 | |
| 21EL027 | KORDE PRATHAMESH SANJAY | 0 | 0 | 0 | |
| 22EL304 | KOSHTI ANIKET PRAVIN | 0 | 0 | 0 | |
| 21EL028 | KULKARNI ADITI ASHUTOSH | 0 | 0 | 0 | |
| 22EL305 | KURADE SANIKA VISHWAS | 0 | 0 | 0 | |
| 21EL029 | MADAVI AKSHAY KUNTAKE | 0 | 0 | 0 | |
| 21EL030 | MALGUNDE PRATHAMESH SUNIL | 0 | 0 | 0 | |
| 21EL031 | MHASKE JAY SANTOSH | 0 | 0 | 0 | |
| 21EL032 | MOON AMAN DHARAMPAL | 0 | 0 | 0 | |
| 21EL033 | MUNDE VEDANT SURESH | 0 | 0 | 0 | |
| 21EL034 | NAGARE SAKSHI SHARAD | 0 | 0 | 0 | |



| ROLL NO | STUDENT NAME | Other | | Other % | SIGN |
|---------|---------------------------|---------------------|----------------------|---------|------|
| | | Total Attended (TH) | Total Conducted (TH) | | |
| 21EL035 | NANAWARE APURV RAMCHANDRA | 0 | 0 | 0 | |
| 21EL037 | PANCHAL TEJAS RAJNIKANT | 0 | 0 | 0 | |
| 22EL306 | PANVAL VAIBHAVI JITENDRA | 0 | 0 | 0 | |
| 21EL202 | PARDIKAR MUKTA RAJENDRA | 0 | 0 | 0 | |
| 21EL038 | PATARE SIDHARTH SUDHAKAR | 0 | 0 | 0 | |
| 21EL039 | PATBHAJE EKTA ANANT | 0 | 0 | 0 | |
| 21EL040 | PATIL AARYA NARAYAN | 0 | 0 | 0 | |
| 21EL041 | PATIL ATHARV ANKUSH | 0 | 0 | 0 | |
| 21EL042 | PATIL BHAVESH CHANDRAKANT | 0 | 0 | 0 | |
| 22EL307 | PATIL PARTH VIJAYKUMAR | 0 | 0 | 0 | |
| 21EL043 | PATIL RUTIK SANJAY | 0 | 0 | 0 | |
| 21EL044 | PATIL YUGANDHAR AMAR | 0 | 0 | 0 | |
| 21EL045 | PATL NIRAJ HIRALAL | 0 | 0 | 0 | |
| 21EL046 | PHADNIS KHANJANA UTKARSH | 0 | 0 | 0 | |
| 21EL047 | POTE VAISHNAVI BABASAHEB | 0 | 0 | 0 | |
| 21EL048 | RANPISE SHWETANK DEEPAK | 0 | 0 | 0 | |
| 21EL049 | RATHOD AMIT ABASAHEB | 0 | 0 | 0 | |
| 21EL050 | RIKIBE NIRAJ RAMESH | 0 | 0 | 0 | |
| 21EL051 | SAKSHANT BHAGWAN VITEKAR | 0 | 0 | 0 | |
| 21EL052 | SARVESH MADHUKAR YADAV | 0 | 0 | 0 | |
| 21EL053 | SHEDAGE OMKAR SANJAY | 0 | 0 | 0 | |
| 21EL054 | SHEWALE DARSHAN SAHEBRAO | 0 | 0 | 0 | |
| 21EL055 | SOLANKI SAHIL KUNDANSING | 0 | 0 | 0 | |
| 21EL056 | SONAWANE AADITYA ANIL | 0 | 0 | 0 | |
| 21EL057 | SONKUL PRATIK SUDHIR | 0 | 0 | 0 | |
| 21EL058 | SURWADE PRAJAKTA MANOHAR | 0 | 0 | 0 | |
| 21EL059 | SUTAR UDAY NAMDEV | 0 | 0 | 0 | |
| 22EL308 | TADAVI SAHIL RAFIK | 0 | 0 | 0 | |
| 21EL060 | TAKALE RUTURAJ BHIWAJI | 0 | 0 | 0 | |
| 21EL061 | TANAYA SHRIKANT SABADE | 0 | 0 | 0 | |
| 21EL062 | TILEKAR SAHIL RAJESH | 0 | 0 | 0 | |
| 21EL063 | UDAVANT RUNAL RAVINDRA | 0 | 0 | 0 | |
| 21EL064 | UMBARKAR SWARAJ NARAYAN | 0 | 0 | 0 | |
| 21EL065 | VYAS NEEL NAVIN | 0 | 0 | 0 | |
| 22EL309 | WAGHMARE SAMARTH ARUN | 0 | 0 | 0 | |
| 22EL310 | WANAVE PRATIKSHA NAVNATH | 0 | 0 | 0 | |





AISSMS COLLEGE OF ENGINEERING

ज्ञानम्, सकलजनहिताय
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Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC (IE)

Accredited by NAAC with 'A+' Grade

Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: coe@aiissmscoe.com
www.aiissmscoe.com

Department Of Mechanical Engineering

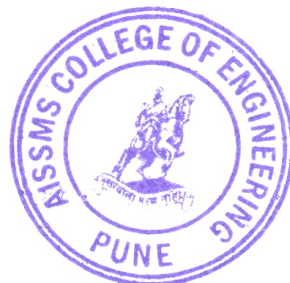
Academic Year: 2022-2023 Semester: SEMESTER 4

THEORY & PRACTICAL ATTENDANCE RECORD

DATE : 01/12/2022 TO 31/01/2024

CLASS

| ROLL NO | STUDENT NAME | Theory | | | | | | | | | | |
|---------|-------------------------------|--------|----|-----|----|----|----|----|----|--------|----|------------------|
| | | MP | | KOM | | AT | | FM | | EM-III | | Total Attendance |
| | | 46 | % | 42 | % | 29 | % | 45 | % | 38 | % | |
| 21ME001 | ABHALE ABHISHEK BALASAHEB | 7 | 15 | 7 | 17 | 14 | 48 | 10 | 22 | 6 | 16 | 44 |
| 22ME301 | AHER PRATHAM ANIL | 19 | 41 | 26 | 62 | 21 | 72 | 24 | 53 | 22 | 58 | 112 |
| 21ME003 | ANIRUDDHA KAMAT | 25 | 54 | 26 | 62 | 15 | 52 | 34 | 76 | 28 | 74 | 128 |
| 22ME302 | ANNELLI KSHITIJ NARENDRA | 15 | 33 | 27 | 64 | 22 | 76 | 14 | 31 | 16 | 42 | 94 |
| 21ME004 | ANTHONY ASHISH RAJESH | 29 | 63 | 31 | 74 | 17 | 59 | 27 | 60 | 27 | 71 | 131 |
| 21ME005 | ANURAG SACHIN DAKARE | 33 | 72 | 35 | 83 | 20 | 69 | 36 | 80 | 30 | 79 | 154 |
| 21ME006 | ATHARVA SANJAY PATIL | 16 | 35 | 25 | 60 | 18 | 62 | 18 | 40 | 17 | 45 | 94 |
| 21ME007 | AVISHKAR SANTOSH JAGTAP | 16 | 35 | 17 | 40 | 12 | 41 | 9 | 20 | 10 | 26 | 64 |
| 22ME303 | BAGAD KALYANI BHARAT | 21 | 46 | 29 | 69 | 19 | 66 | 22 | 49 | 18 | 47 | 109 |
| 22ME304 | BELDAR SUJAL CHANDAN | 31 | 67 | 35 | 83 | 21 | 72 | 29 | 64 | 26 | 68 | 142 |
| 22ME305 | BHAPKAR PRANAV DILIP | 29 | 63 | 29 | 69 | 22 | 76 | 27 | 60 | 24 | 63 | 131 |
| 21ME008 | BHOLE ADITYA VIRENDRA | 15 | 33 | 18 | 43 | 16 | 55 | 14 | 31 | 15 | 39 | 78 |
| 21ME009 | BHOSALE ABHISHEK RAMESH | 0 | 0 | 4 | 10 | 2 | 7 | 1 | 2 | 3 | 8 | 10 |
| 22ME306 | BIRAJDAR DNYANESWAR KASHINATH | 32 | 70 | 37 | 88 | 22 | 76 | 31 | 69 | 23 | 61 | 145 |
| 21ME011 | CHAUDHARI SHLOK RAVINDRA | 8 | 17 | 16 | 38 | 14 | 48 | 12 | 27 | 10 | 26 | 60 |
| 21ME012 | CHAVAN SAHIL PRAKASH | 8 | 17 | 13 | 31 | 14 | 48 | 6 | 13 | 9 | 24 | 50 |
| 21ME013 | CHITARI HARSH APPASAHEB | 14 | 30 | 25 | 60 | 16 | 55 | 14 | 31 | 18 | 47 | 87 |
| 21ME014 | CHORDIYA JITEN RAJESH | 31 | 67 | 29 | 69 | 16 | 55 | 27 | 60 | 22 | 58 | 125 |
| 21ME016 | DESHMUKH MAYUR SURESH | 15 | 33 | 27 | 64 | 20 | 69 | 15 | 33 | 16 | 42 | 93 |
| 21ME017 | DHAME ADITYA RAJENDRA | 28 | 61 | 37 | 88 | 22 | 76 | 32 | 71 | 29 | 76 | 148 |
| 21ME018 | DHAYBAR OMKAR SUBHASH | 18 | 39 | 26 | 62 | 15 | 52 | 12 | 27 | 13 | 34 | 84 |
| 22ME307 | DHENDE VINAY VIJAY | 35 | 76 | 34 | 81 | 21 | 72 | 29 | 64 | 28 | 74 | 147 |
| 21ME019 | DHOKE RIYA PRAKASH | 20 | 43 | 19 | 45 | 13 | 45 | 24 | 53 | 16 | 42 | 92 |
| 21ME020 | DOKE VAISHNAVI SUDHAKAR | 4 | 9 | 18 | 43 | 7 | 24 | 9 | 20 | 3 | 8 | 41 |
| 21ME021 | DUDHADE GANESH ASHOK | 29 | 63 | 33 | 79 | 24 | 83 | 23 | 51 | 26 | 68 | 135 |
| 22ME308 | DUSSAL MUKUL SANDEEP | 41 | 89 | 40 | 95 | 25 | 86 | 39 | 87 | 34 | 89 | 179 |
| 21ME022 | DUSUNGE SHRIKANT DNYANESHWAR | 15 | 33 | 23 | 55 | 18 | 62 | 15 | 33 | 15 | 39 | 86 |
| 21ME023 | GADDAMWAR SAGAR SURESH | 37 | 80 | 36 | 86 | 25 | 86 | 34 | 76 | 34 | 89 | 166 |
| 21ME024 | GADE ATHARVA DADA | 31 | 67 | 30 | 71 | 23 | 79 | 29 | 64 | 28 | 74 | 141 |
| 22ME309 | GADEKAR PRAJWAL SANJAY | 33 | 72 | 38 | 90 | 19 | 66 | 28 | 62 | 24 | 63 | 142 |
| 22ME310 | GAIKWAD SAKSHI SANJAY | 30 | 65 | 27 | 64 | 23 | 79 | 25 | 56 | 24 | 63 | 129 |
| 22ME311 | GAIKWAD SAMARTH SANJAY | 36 | 78 | 38 | 90 | 22 | 76 | 32 | 71 | 32 | 84 | 160 |
| 21ME025 | GALANDE OM BABANRAO | 26 | 57 | 25 | 60 | 19 | 66 | 25 | 56 | 24 | 63 | 119 |
| 22ME312 | GALANDE PRATIK JAYKUMAR | 25 | 54 | 30 | 71 | 23 | 79 | 26 | 58 | 22 | 58 | 126 |
| 22ME313 | GAPONKAR SWAPNIL SUDHIR | 36 | 78 | 36 | 86 | 26 | 90 | 39 | 87 | 33 | 87 | 170 |
| 22ME314 | GAWARE AJIT DNYANDEO | 25 | 54 | 32 | 76 | 22 | 76 | 26 | 58 | 22 | 58 | 127 |
| 21ME026 | GHULE HARIOM VITTHAL | 23 | 50 | 21 | 50 | 17 | 59 | 21 | 47 | 17 | 45 | 99 |
| 21ME027 | GORLEWAR SHRADDHA MAHADEO | 29 | 63 | 28 | 67 | 15 | 52 | 25 | 56 | 24 | 63 | 121 |
| 21ME029 | HOLE SAKSHI MANIK | 25 | 54 | 27 | 64 | 19 | 66 | 26 | 58 | 27 | 71 | 124 |
| 21ME030 | INGLE RUSHIKESH BABURAO | 13 | 28 | 23 | 55 | 22 | 76 | 14 | 31 | 14 | 37 | 86 |
| 21ME031 | INGOLE RUSHIKESH KISHOR | 18 | 39 | 21 | 50 | 23 | 79 | 19 | 42 | 19 | 50 | 100 |
| 21ME032 | JADHAO SHIVANAND RAVINDRA | 22 | 48 | 27 | 64 | 12 | 41 | 20 | 44 | 20 | 53 | 101 |
| 21ME033 | JADHAV SUJAL SUNIL | 9 | 20 | 19 | 45 | 14 | 48 | 12 | 27 | 17 | 45 | 71 |
| 21ME034 | JADHAV VISHAL DHANRAJ | 21 | 46 | 22 | 52 | 14 | 48 | 11 | 24 | 16 | 42 | 84 |
| 21ME035 | JAMBHULKAR ATHARVA NITIN | 20 | 43 | 24 | 57 | 15 | 52 | 14 | 31 | 20 | 53 | 93 |
| 21ME036 | JOSHI VARUN ANANT | 9 | 20 | 19 | 45 | 14 | 48 | 10 | 22 | 12 | 32 | 64 |
| 21ME037 | KACHARE SOHAM ANANDA | 14 | 30 | 30 | 71 | 21 | 72 | 15 | 33 | 23 | 61 | 103 |
| 21ME038 | KADLAG OM GOKUL | 29 | 63 | 25 | 60 | 16 | 55 | 25 | 56 | 30 | 79 | 125 |
| 21ME039 | KANKATE KARAN KANTILAL | 18 | 39 | 27 | 64 | 14 | 48 | 22 | 49 | 14 | 37 | 95 |
| 21ME040 | KARLEKAR AARYA VIVEK | 27 | 59 | 32 | 76 | 21 | 72 | 31 | 69 | 25 | 66 | 136 |
| 21ME041 | KASAR JAY SOMNATH | 29 | 63 | 28 | 67 | 23 | 79 | 27 | 60 | 26 | 68 | 133 |
| 21ME042 | KATKAR TANISHQ RAJESH | 3 | 7 | 8 | 19 | 7 | 24 | 7 | 16 | 7 | 18 | 32 |
| 21ME043 | KAWADE DISHA SHAILESH | 17 | 37 | 20 | 48 | 15 | 52 | 15 | 33 | 13 | 34 | 80 |
| 21ME044 | KHANDEPARKAR ADVAIT MILIND | 16 | 35 | 22 | 52 | 13 | 45 | 19 | 42 | 23 | 61 | 93 |
| 21ME045 | KHARMATE OMKAR VINAYAK | 10 | 22 | 19 | 45 | 11 | 38 | 6 | 13 | 10 | 26 | 56 |
| 21ME046 | KIRAN GANESH GAIKWAD | 28 | 61 | 29 | 69 | 20 | 69 | 26 | 58 | 31 | 82 | 134 |
| 21ME047 | KODRE AYUSH SANDEEP | 6 | 13 | 17 | 40 | 15 | 52 | 9 | 20 | 11 | 29 | 58 |
| 21ME048 | KOLEKAR SUSHANT MADHUKAR | 5 | 11 | 11 | 26 | 13 | 45 | 6 | 13 | 2 | 5 | 37 |
| 21ME050 | KULKARNI ATHARV KIRAN | 30 | 65 | 31 | 74 | 19 | 66 | 35 | 78 | 33 | 87 | 148 |
| 21ME051 | KULKARNI RUCHA SUHAS | 16 | 35 | 27 | 64 | 11 | 38 | 18 | 40 | 20 | 53 | 92 |
| 21ME052 | KUMAWAT NITESH SURESH | 15 | 33 | 25 | 60 | 15 | 52 | 20 | 44 | 16 | 42 | 91 |
| 21ME053 | MACHEWAR PARTH SANJAYKUMAR | 30 | 65 | 31 | 74 | 23 | 79 | 28 | 62 | 29 | 76 | 141 |
| 21ME054 | MADHUR JOSHI | 5 | 11 | 17 | 40 | 12 | 41 | 12 | 27 | 9 | 24 | 55 |



| ROLL NO | STUDENT NAME | Theory | | | | | | | | | | |
|---------|---------------------------|--------|----|-----|----|----|----|----|----|--------|----|------------------|
| | | MP | | KOM | | AT | | FM | | EM-III | | Total Attendance |
| | | 46 | % | 42 | % | 29 | % | 45 | % | 38 | % | |
| 21ME055 | MAGESH SAIBHARADWAJ | 22 | 48 | 26 | 62 | 17 | 59 | 18 | 40 | 26 | 68 | 109 |
| 21ME056 | MAHAJAN RUSHABH MAHAVEER | 26 | 57 | 32 | 76 | 18 | 62 | 34 | 76 | 32 | 84 | 142 |
| 21ME057 | MALI PRASHANT BHAGAWAN | 17 | 37 | 22 | 52 | 20 | 69 | 21 | 47 | 16 | 42 | 96 |
| 21ME058 | MANE ATHARVA ARUN | 9 | 20 | 18 | 43 | 12 | 41 | 13 | 29 | 14 | 37 | 66 |
| 21ME059 | MANE DHRUV AVINASH | 10 | 22 | 20 | 48 | 8 | 28 | 11 | 24 | 20 | 53 | 69 |
| 21ME060 | MANE MITESH GORAKH | 8 | 17 | 23 | 55 | 6 | 21 | 9 | 20 | 11 | 29 | 57 |
| 21ME061 | MAT PRANAV SURESH | 17 | 37 | 20 | 48 | 11 | 38 | 12 | 27 | 15 | 39 | 75 |
| 21ME062 | MORANKAR PRATHAMESH ASHOK | 9 | 20 | 18 | 43 | 10 | 34 | 8 | 18 | 10 | 26 | 55 |
| 21ME063 | MUNDE VISHAL SHIVAJI | 20 | 43 | 28 | 67 | 16 | 55 | 17 | 38 | 19 | 50 | 100 |





AISSMS COLLEGE OF ENGINEERING

आयुक्त, सकलजनहिताय
Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra
Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC (India)
Accredited by NAAC with 'A+' Grade

Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: coe@aiissmscoe.com
www.aiissmscoe.com

Department Of Mechanical Engineering

Academic Year: 2022-2023 Semester: SEMESTER 4

THEORY & PRACTICAL ATTENDANCE RECORD

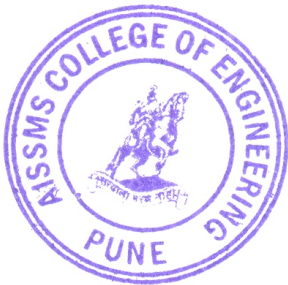
DATE : 01/12/2022 TO 31/01/2024

CLASS

| ROLL NO | STUDENT NAME | Practical | | | | | | | | | | | | | | | | A |
|---------|-------------------------------|-----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|----------|-----------|-----|--|---|
| | | MS | | | PBL-II | | | KOM | | | AT | | | FM | | | | |
| | | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | | |
| 21ME001 | ABHALE ABHISHEK BALASAHEB | 4 | 10 | 40 | 0 | 6 | 0 | 6 | 12 | 50 | 6 | 7 | 86 | 5 | 13 | 38 | | |
| 22ME301 | AHER PRATHAM ANIL | 8 | 11 | 73 | 6 | 8 | 75 | 9 | 12 | 75 | 5 | 6 | 83 | 5 | 13 | 38 | | |
| 21ME003 | ANIRUDDHA KAMAT | 7 | 10 | 70 | 6 | 6 | 100 | 8 | 12 | 67 | 7 | 7 | 100 | 9 | 13 | 69 | | |
| 22ME302 | ANNELLI KSHITIJA NARENDRA | 3 | 11 | 27 | 6 | 8 | 75 | 10 | 12 | 83 | 5 | 6 | 83 | 5 | 13 | 38 | | |
| 21ME004 | ANTHONY ASHISH RAJESH | 6 | 10 | 60 | 6 | 6 | 100 | 8 | 12 | 67 | 7 | 7 | 100 | 6 | 13 | 46 | | |
| 21ME005 | ANURAG SACHIN DAKARE | 10 | 10 | 100 | 4 | 6 | 67 | 11 | 12 | 92 | 7 | 7 | 100 | 11 | 13 | 85 | | |
| 21ME006 | ATHARVA SANJAY PATIL | 8 | 10 | 80 | 4 | 6 | 67 | 7 | 12 | 58 | 6 | 7 | 86 | 7 | 13 | 54 | | |
| 21ME007 | AVISHKAR SANTOSH JAGTAP | 5 | 10 | 50 | 5 | 6 | 83 | 8 | 12 | 67 | 4 | 7 | 57 | 5 | 13 | 38 | | |
| 22ME303 | BAGAD KALYANI BHARAT | 6 | 11 | 55 | 3 | 8 | 38 | 11 | 12 | 92 | 3 | 6 | 50 | 7 | 13 | 54 | | |
| 22ME304 | BELDAR SUJAL CHANDAN | 6 | 11 | 55 | 5 | 8 | 62 | 10 | 12 | 83 | 4 | 6 | 67 | 8 | 13 | 62 | | |
| 22ME305 | BHAPKAR PRANAV DILIP | 5 | 11 | 45 | 5 | 8 | 62 | 11 | 12 | 92 | 4 | 6 | 67 | 8 | 13 | 62 | | |
| 21ME008 | BHOLE ADITYA VIRENDRA | 4 | 10 | 40 | 6 | 6 | 100 | 5 | 12 | 42 | 4 | 7 | 57 | 11 | 13 | 85 | | |
| 21ME009 | BHOSALE ABHISHEK RAMESH | 1 | 10 | 10 | 3 | 6 | 50 | 0 | 12 | 0 | 2 | 7 | 29 | 0 | 13 | 0 | | |
| 22ME306 | BIRAJDAR DNYANESWAR KASHINATH | 6 | 11 | 55 | 6 | 8 | 75 | 10 | 12 | 83 | 4 | 6 | 67 | 12 | 13 | 92 | | |
| 21ME011 | CHAUDHARI SHLOK RAVINDRA | 5 | 10 | 50 | 3 | 6 | 50 | 7 | 12 | 58 | 7 | 7 | 100 | 4 | 13 | 31 | | |
| 21ME012 | CHAVAN SAHIL PRAKASH | 7 | 10 | 70 | 4 | 6 | 67 | 6 | 12 | 50 | 2 | 7 | 29 | 5 | 13 | 38 | | |
| 21ME013 | CHITARI HARSH APPASAHEB | 7 | 10 | 70 | 3 | 6 | 50 | 8 | 12 | 67 | 4 | 7 | 57 | 8 | 13 | 62 | | |
| 21ME014 | CHORDIYA JITEN RAJESH | 4 | 10 | 40 | 4 | 6 | 67 | 11 | 12 | 92 | 5 | 7 | 71 | 8 | 13 | 62 | | |
| 21ME016 | DESHMUKH MAYUR SURESH | 8 | 10 | 80 | 4 | 6 | 67 | 8 | 12 | 67 | 7 | 7 | 100 | 6 | 13 | 46 | | |
| 21ME017 | DHAME ADITYA RAJENDRA | 6 | 10 | 60 | 4 | 6 | 67 | 10 | 12 | 83 | 5 | 7 | 71 | 10 | 13 | 77 | | |
| 21ME018 | DHAYBAR OMKAR SUBHASH | 8 | 10 | 80 | 4 | 6 | 67 | 7 | 12 | 58 | 6 | 7 | 86 | 7 | 13 | 54 | | |
| 22ME307 | DHENDE VINAY VIJAY | 9 | 11 | 82 | 6 | 8 | 75 | 10 | 12 | 83 | 5 | 6 | 83 | 11 | 13 | 85 | | |
| 21ME019 | DHOKE RIYA PRAKASH | 6 | 10 | 60 | 4 | 6 | 67 | 6 | 12 | 50 | 5 | 7 | 71 | 9 | 13 | 69 | | |
| 21ME020 | DOKE VAISHNAVI SUDHAKAR | 3 | 10 | 30 | 3 | 6 | 50 | 6 | 12 | 50 | 7 | 7 | 100 | 6 | 13 | 46 | | |
| 21ME021 | DUDHADE GANESH ASHOK | 7 | 10 | 70 | 5 | 6 | 83 | 7 | 12 | 58 | 7 | 7 | 100 | 6 | 13 | 46 | | |
| 22ME308 | DUSSAL MUKUL SANDEEP | 11 | 11 | 100 | 6 | 8 | 75 | 10 | 12 | 83 | 6 | 6 | 100 | 11 | 13 | 85 | | |
| 21ME022 | DUSUNGE SHRIKANT DNYANESHWAR | 7 | 10 | 70 | 6 | 6 | 100 | 8 | 12 | 67 | 7 | 7 | 100 | 6 | 13 | 46 | | |
| 21ME023 | GADDAMWAR SAGAR SURESH | 8 | 10 | 80 | 5 | 6 | 83 | 11 | 12 | 92 | 7 | 7 | 100 | 13 | 13 | 100 | | |
| 21ME024 | GADE ATHARVA DADA | 7 | 10 | 70 | 5 | 6 | 83 | 8 | 12 | 67 | 7 | 7 | 100 | 10 | 13 | 77 | | |
| 22ME309 | GADEKAR PRAJWAL SANJAY | 8 | 11 | 73 | 5 | 8 | 62 | 5 | 12 | 42 | 3 | 6 | 50 | 9 | 13 | 69 | | |
| 22ME310 | GAIKWAD SAKSHI SANJAY | 8 | 11 | 73 | 5 | 8 | 62 | 10 | 12 | 83 | 4 | 6 | 67 | 8 | 13 | 62 | | |
| 22ME311 | GAIKWAD SAMARTH SANJAY | 9 | 11 | 82 | 6 | 8 | 75 | 10 | 12 | 83 | 5 | 6 | 83 | 11 | 13 | 85 | | |
| 21ME025 | GALANDE OM BABANRAO | 7 | 10 | 70 | 5 | 6 | 83 | 10 | 12 | 83 | 7 | 7 | 100 | 8 | 13 | 62 | | |
| 22ME312 | GALANDE PRATIK JAYKUMAR | 9 | 11 | 82 | 4 | 8 | 50 | 12 | 12 | 100 | 4 | 6 | 67 | 6 | 13 | 46 | | |
| 22ME313 | GAONKAR SWAPNIL SUDHIR | 9 | 11 | 82 | 6 | 8 | 75 | 11 | 12 | 92 | 5 | 6 | 83 | 11 | 13 | 85 | | |
| 22ME314 | GAWARE AJIT DNYANDEO | 7 | 11 | 64 | 4 | 8 | 50 | 11 | 12 | 92 | 5 | 6 | 83 | 6 | 13 | 46 | | |
| 21ME026 | GHULE HARIOM VITTHAL | 8 | 10 | 80 | 7 | 8 | 88 | 10 | 12 | 83 | 7 | 8 | 88 | 9 | 12 | 75 | | |
| 21ME027 | GORLEWAR SHRADDHA MAHADEO | 6 | 10 | 60 | 5 | 8 | 62 | 9 | 12 | 75 | 4 | 8 | 50 | 9 | 12 | 75 | | |
| 21ME029 | HOLE SAKSHI MANIK | 8 | 10 | 80 | 5 | 8 | 62 | 10 | 12 | 83 | 7 | 8 | 88 | 7 | 12 | 58 | | |
| 21ME030 | INGLE RUSHIKESH BABURAO | 6 | 10 | 60 | 6 | 8 | 75 | 10 | 12 | 83 | 6 | 8 | 75 | 3 | 12 | 25 | | |
| 21ME031 | INGOLE RUSHIKESH KISHOR | 3 | 10 | 30 | 7 | 8 | 88 | 10 | 12 | 83 | 6 | 8 | 75 | 6 | 12 | 50 | | |
| 21ME032 | JADHAO SHIVANAND RAVINDRA | 7 | 10 | 70 | 5 | 8 | 62 | 9 | 12 | 75 | 7 | 8 | 88 | 9 | 12 | 75 | | |
| 21ME033 | JADHAV SUJAL SUNIL | 6 | 10 | 60 | 2 | 8 | 25 | 9 | 12 | 75 | 5 | 8 | 62 | 4 | 12 | 33 | | |
| 21ME034 | JADHAV VISHAL DHANRAJ | 6 | 10 | 60 | 4 | 8 | 50 | 7 | 12 | 58 | 2 | 8 | 25 | 4 | 12 | 33 | | |
| 21ME035 | JAMBHULKAR ATHARVA NITIN | 6 | 10 | 60 | 3 | 8 | 38 | 9 | 12 | 75 | 5 | 8 | 62 | 7 | 12 | 58 | | |
| 21ME036 | JOSHI VARUN ANANT | 4 | 10 | 40 | 4 | 8 | 50 | 8 | 12 | 67 | 4 | 8 | 50 | 5 | 12 | 42 | | |
| 21ME037 | KACHARE SOHAM ANANDA | 5 | 10 | | | | | 9 | 12 | 75 | 6 | 8 | 75 | 5 | 12 | 42 | | |
| 21ME038 | KADLAG OM GOKUL | 3 | 10 | | | | | 9 | 12 | 75 | 5 | 8 | 62 | 5 | 12 | 42 | | |
| 21ME039 | KANKATE KARAN KANTILAL | 5 | 10 | | | | | 7 | 12 | 58 | 7 | 8 | 88 | 5 | 12 | 42 | | |
| 21ME040 | KARLEKAR AARYA VIVEK | 8 | 10 | | | | | 1 | 12 | 92 | 7 | 8 | 88 | 9 | 12 | 75 | | |
| 21ME041 | KASAR JAY SOMNATH | 4 | 10 | | | | | 0 | 12 | 83 | 6 | 8 | 75 | 6 | 12 | 50 | | |
| 21ME042 | KATKAR TANISHQ RAJESH | 3 | 10 | | | | | 3 | 12 | 25 | 3 | 8 | 38 | 0 | 12 | 0 | | |
| 21ME043 | KAWADE DISHA SHAILESH | 4 | 10 | | | | | 5 | 12 | 42 | 4 | 8 | 50 | 6 | 12 | 50 | | |
| 21ME044 | KHANDEPARKAR ADVAIT MILIND | 9 | 10 | | | | | 8 | 12 | 67 | 5 | 8 | 62 | 4 | 12 | 33 | | |
| 21ME045 | KHARMATE OMKAR VINAYAK | 4 | 10 | | | | | 2 | 12 | 17 | 4 | 8 | 50 | 3 | 12 | 25 | | |
| 21ME046 | KIRAN GANESH GAIKWAD | 5 | 10 | | | | | 9 | 12 | 75 | 7 | 8 | 88 | 7 | 12 | 58 | | |
| 21ME047 | KODRE AYUSH SANDEEP | 6 | 10 | | | | | 7 | 12 | 58 | 5 | 8 | 62 | 3 | 12 | 25 | | |
| 21ME048 | KOLEKAR SUSHANT MADHUKAR | 4 | 10 | 40 | 4 | 8 | 50 | 3 | 12 | 25 | 0 | 8 | 0 | 1 | 12 | 8 | | |
| 21ME050 | KULKARNI ATHARV KIRAN | 8 | 10 | 80 | 5 | 8 | 62 | 10 | 12 | 83 | 7 | 8 | 88 | 10 | 12 | 83 | | |
| 21ME051 | KULKARNI RUCHA SUHAS | 8 | 10 | 80 | 5 | 8 | 62 | 11 | 12 | 92 | 2 | 8 | 25 | 6 | 12 | 50 | | |
| 21ME052 | KUMAWAT NITESH SURESH | 7 | 11 | 64 | 7 | 8 | 88 | 11 | 12 | 92 | 6 | 6 | 100 | 8 | 13 | 62 | | |
| 21ME053 | MACHEWAR PARTH SANJAYKUMAR | 9 | 11 | 82 | 5 | 8 | 62 | 11 | 12 | 92 | 6 | 6 | 100 | 10 | 13 | 77 | | |
| 21ME054 | MADHUR JOSHI | 6 | 11 | 55 | 2 | 8 | 25 | 3 | 12 | 25 | 4 | 6 | 67 | 3 | 13 | 23 | | |



| ROLL NO | STUDENT NAME | Practical | | | | | | | | | | | | | | | A |
|---------|---------------------------|-----------|-----------|----|----------|-----------|----|----------|-----------|----|----------|-----------|-----|----------|-----------|----|---|
| | | MS | | | PBL-II | | | KOM | | | AT | | | FM | | | |
| | | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | Attended | Conducted | % | |
| 21ME055 | MAGESH SAIBHARADWAJ | 5 | 11 | 45 | 3 | 8 | 38 | 2 | 12 | 17 | 6 | 6 | 100 | 6 | 13 | 46 | |
| 21ME056 | MAHAJAN RUSHABH MAHAVEER | 7 | 11 | 64 | 6 | 8 | 75 | 10 | 12 | 83 | 5 | 6 | 83 | 9 | 13 | 69 | |
| 21ME057 | MALI PRASHANT BHAGAWAN | 5 | 11 | 45 | 3 | 8 | 38 | 7 | 12 | 58 | 6 | 6 | 100 | 6 | 13 | 46 | |
| 21ME058 | MANE ATHARVA ARUN | 0 | 11 | 0 | 2 | 8 | 25 | 5 | 12 | 42 | 2 | 6 | 33 | 0 | 13 | 0 | |
| 21ME059 | MANE DHRUV AVINASH | 2 | 11 | 18 | 4 | 8 | 50 | 10 | 12 | 83 | 5 | 6 | 83 | 2 | 13 | 15 | |
| 21ME060 | MANE MITESH GORAKH | 0 | 11 | 0 | 3 | 8 | 38 | 8 | 12 | 67 | 0 | 6 | 0 | 1 | 13 | 8 | |
| 21ME061 | MAT PRANAV SURESH | 3 | 11 | 27 | 5 | 8 | 62 | 1 | 12 | 8 | 5 | 6 | 83 | 5 | 13 | 38 | |
| 21ME062 | MORANKAR PRATHAMESH ASHOK | 6 | 11 | 55 | 2 | 8 | 25 | 1 | 12 | 8 | 1 | 6 | 17 | 4 | 13 | 31 | |
| 21ME063 | MUNDE VISHAL SHIVAJI | 4 | 11 | 36 | 6 | 8 | 75 | 2 | 12 | 17 | 5 | 6 | 83 | 6 | 13 | 46 | |





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Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra
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Accredited by NAAC with 'A+' Grade

Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: coe@aiissmscoe.com

Department Of Mechanical Engineering

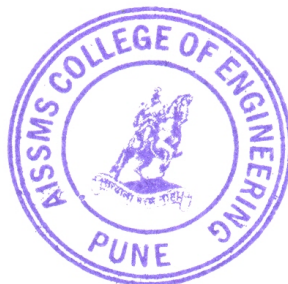
Academic Year: 2022-2023 Semester: SEMESTER 4

THEORY & PRACTICAL ATTENDANCE RECORD

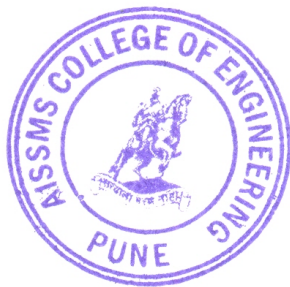
DATE : 01/12/2022 TO 31/01/2024

CLASS

| ROLL NO | STUDENT NAME | Total Attended (TH) |
|---------|-------------------------------|---------------------|
| | | |
| 21ME001 | ABHALE ABHISHEK BALASAHEB | 0 |
| 22ME301 | AHER PRATHAM ANIL | 0 |
| 21ME003 | ANIRUDDHA KAMAT | 0 |
| 22ME302 | ANNELLI KSHITIJ NARENDRA | 0 |
| 21ME004 | ANTHONY ASHISH RAJESH | 0 |
| 21ME005 | ANURAG SACHIN DAKARE | 0 |
| 21ME006 | ATHARVA SANJAY PATIL | 0 |
| 21ME007 | AVISHKAR SANTOSH JAGTAP | 0 |
| 22ME303 | BAGAD KALYANI BHARAT | 0 |
| 22ME304 | BELDAR SUJAL CHANDAN | 0 |
| 22ME305 | BHAPKAR PRANAV DILIP | 0 |
| 21ME008 | BHOLE ADITYA VIRENDRA | 0 |
| 21ME009 | BHOSALE ABHISHEK RAMESH | 0 |
| 22ME306 | BIRAJDAR DNYANESWAR KASHINATH | 0 |
| 21ME011 | CHAUDHARI SHLOK RAVINDRA | 0 |
| 21ME012 | CHAVAN SAHIL PRAKASH | 0 |
| 21ME013 | CHITARI HARSH APPASAHEB | 0 |
| 21ME014 | CHORDIYA JITEN RAJESH | 0 |
| 21ME016 | DESHMUKH MAYUR SURESH | 0 |
| 21ME017 | DHAME ADITYA RAJENDRA | 0 |
| 21ME018 | DHAYBAR OMKAR SUBHASH | 0 |
| 22ME307 | DHENDE VINAY VIJAY | 0 |
| 21ME019 | DHOKE RIYA PRAKASH | 0 |
| 21ME020 | DOKE VAISHNAVI SUDHAKAR | 0 |
| 21ME021 | DUDHADE GANESH ASHOK | 0 |
| 22ME308 | DUSSAL MUKUL SANDEEP | 0 |
| 21ME022 | DUSUNGE SHRIKANT DNYANESHWAR | 0 |
| 21ME023 | GADDAMWAR SAGAR SURESH | 0 |
| 21ME024 | GADE ATHARVA DADA | 0 |
| 22ME309 | GADEKAR PRAJWAL SANJAY | 0 |
| 22ME310 | GAIKWAD SAKSHI SANJAY | 0 |
| 22ME311 | GAIKWAD SAMARTH SANJAY | 0 |
| 21ME025 | GALANDE OM BABANRAO | 0 |
| 22ME312 | GALANDE PRATIK JAYKUMAR | 0 |
| 22ME313 | GAONKAR SWAPNIL SUDHIR | 0 |
| 22ME314 | GAWARE AJIT DNYANDEO | 0 |
| 21ME026 | GHULE HARIOM VITTHAL | 0 |
| 21ME027 | GORLEWAR SHRADDHA MAHADEO | 0 |
| 21ME029 | HOLE SAKSHI MANIK | 0 |
| 21ME030 | INGLE RUSHIKESH BABURAO | 0 |
| 21ME031 | INGOLE RUSHIKESH KISHOR | 0 |
| 21ME032 | JADHAO SHIVANAND RAVINDRA | 0 |
| 21ME033 | JADHAV SUJAL SUNIL | 0 |
| 21ME034 | JADHAV VISHAL DHANRAJ | 0 |
| 21ME035 | JAMBHULKAR ATHARVA NITIN | 0 |
| 21ME036 | JOSHI VARUN ANANT | 0 |
| 21ME037 | KACHARE SOHAM ANANDA | 0 |
| 21ME038 | KADLAG OM GOKUL | 0 |
| 21ME039 | KANKATE KARAN KANTILAL | 0 |
| 21ME040 | KARLEKAR AARYA VIVEK | 0 |
| 21ME041 | KASAR JAY SOMNATH | 0 |
| 21ME042 | KATKAR TANISHQ RAJESH | 0 |
| 21ME043 | KAWADE DISHA SHAILESH | 0 |
| 21ME044 | KHANDEPARKAR ADVAIT MILIND | 0 |
| 21ME045 | KHARMATE OMKAR VINAYAK | 0 |
| 21ME046 | KIRAN GANESH GAIKWAD | 0 |
| 21ME047 | KODRE AYUSH SANDEEP | 0 |
| 21ME048 | KOLEKAR SUSHANT MADHUKAR | 0 |
| 21ME050 | KULKARNI ATHARV KIRAN | 0 |
| 21ME051 | KULKARNI RUCHA SUHAS | 0 |
| 21ME052 | KUMAWAT NITESH SURESH | 0 |
| 21ME053 | MACHEWAR PARTH SANJAYKUMAR | 0 |
| 21ME054 | MADHUR JOSHI | 0 |
| 21ME055 | MAGESH SAIBHARADWAJ | 0 |
| 21ME056 | MAHAJAN RUSHABH MAHAVEER | 0 |



| ROLL NO | STUDENT NAME | |
|---------|---------------------------|---------------------|
| | | Total Attended (TH) |
| 21ME057 | MALI PRASHANT BHAGAWAN | 0 |
| 21ME058 | MANE ATHARVA ARUN | 0 |
| 21ME059 | MANE DHYUV AVINASH | 0 |
| 21ME060 | MANE MITESH GORAKH | 0 |
| 21ME061 | MAT PRANAV SURESH | 0 |
| 21ME062 | MORANKAR PRATHAMESH ASHOK | 0 |
| 21ME063 | MUNDE VISHAL SHIVAJI | 0 |





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Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC (Id. No. PU/PN/Engg/093/1992)

Accredited by NAAC with 'A+' Grade



Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: contact@aiissmscoe.com, principal@aiissmscoe.com
www.aiissmscoe.com

Date: 11/11/2022

Department of Computer Engineering

To,

Dr. SHASHIKANT VISHWASRAO ATHAWALE
ASSOCIATE PROFESSOR

Subject - Letter of Appreciation

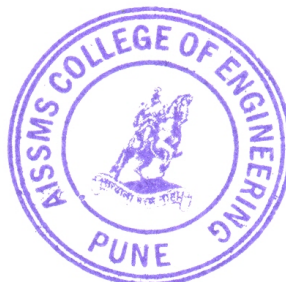
Dear Sir,

It gives me immense pleasure to congratulate you on the behalf of **Computer Engineering** department based upon the analysis of feedback forms submitted by the students of **TE** for the subject **Computer Networks and Security**. It has been assumed that you are carrying out a commendable job of teaching. The department highly appreciates your efforts and wishes to see the same kind of enthusiasm from you, towards your work for as long as associated with us. Wishing you all the best !!!

CLASS TEACHER

FEEDBACK COORDINATOR

HEAD OF DEPARTMENT



END TERM FEEDBACK AY : 2022 23, TERM 1

TEACHER - DR. SHASHIKANT VISHWASRAO
ATHAWALE

DEPARTMENT - COMPUTER ENGINEERING

TOTAL STUDENTS -
23

ACADEMIC YEAR - 2022-2023

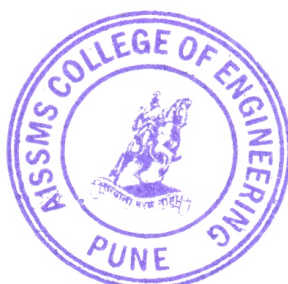
SUBJECT - COMPUTER NETWORKS AND SECURITY
(THEORETICAL)

SEMESTER 5 (A)

DATE - 11/11/2022

TERM - END TERM

| SR NO | QUESTION | EXCELLENT | VERY GOOD | GOOD | SATISFACTORY | NOT SATISFACTORY | TOTAL MARKS | OUT OF | PERCENTAGE |
|----------|---|-----------|--------------|------|--------------|---------------------|------------------------|-----------|------------|
| 1 | HAS THE TEACHER COVERED ENTIRE SYLLABUS AS PRESCRIBED BY UNIVERSITY, COLLEGE, BOARD | 9 | 5 | 7 | 2 | 0 | 90 | 115 | 78% |
| 2 | HAS THE TEACHER COVERED RELEVANT TOPICS BEYOND SYLLABUS | 12 | 7 | 2 | 2 | 0 | 98 | 115 | 85% |
| 3 | EFFECTIVENESS OF TEACHER IN TERMS OF TECHNICAL CONTENT /COURSE CONTENT, COMMUNICATION SKILLS AND USE OF TEACHING AIDS | 10 | 9 | 2 | 2 | 0 | 96 | 115 | 83% |
| 4 | PACE ON WHICH CONTENTS WERE COVERED | 9 | 10 | 2 | 2 | 0 | 95 | 115 | 83% |
| 5 | MOTIVATION AND INSPIRATION FOR STUDENTS TO LEARN | 11 | 8 | 2 | 2 | 0 | 97 | 115 | 84% |
| 6 | SUPPORT FOR THE DEVELOPMENT OF STUDENTS SKILL PRACTICAL DEMONSTRATION, HANDS ON TRAINING | 9 | 8 | 4 | 2 | 0 | 93 | 115 | 81% |
| 7 | CLARITY OF EXPECTATIONS OF STUDENTS | 11 | 6 | 4 | 2 | 0 | 95 | 115 | 83% |
| 8 | FEEDBACK PROVIDED ON STUDENTS PROGRESS | 10 | 8 | 3 | 2 | 0 | 95 | 115 | 83% |
| 9 | WILLINGNESS TO OFFER HELP AND ADVICE TO STUDENTS | 12 | 8 | 1 | 2 | 0 | 99 | 115 | 86% |
| | TOTAL | 93 | 69 | 27 | 18 | 0 | 858 | 1035 | 83% |
| | TOTAL(%) | 45% | 33% | 13% | 9% | 0% | PERFORMANCE INDEX - 83 | | |





AISSMS COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra,
Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC (Id. No. PU/PN/Engg/093(1992))

Accredited by NAAC with 'A+' Grade

Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058587, 26057660, 26058342 Email: contact@aiissmscoe.com, principal@aiissmscoe.com
www.aiissmscoe.com



Date: 11/11/2022

Department of Computer Engineering

To,

Dr. SHASHIKANT VISHWASRAO ATHAWALE
ASSOCIATE PROFESSOR

Subject - Letter of Appreciation

Dear Sir,

It gives me immense pleasure to congratulate you on the behalf of **Computer Engineering** department based upon the analysis of feedback forms submitted by the students of **TE** for the subject **Computer Networks and Security Laboratory**. It has been assumed that you are carrying out a commendable job of teaching. The department highly appreciates your efforts and wishes to see the same kind of enthusiasm from you, towards your work for as long as associated with us. Wishing you all the best !!!

CLASS TEACHER

FEEDBACK COORDINATOR

HEAD OF DEPARTMENT



END TERM FEEDBACK AY : 2022 23, TERM 1

TEACHER - DR. SHASHIKANT VISHWASRAO
ATHAWALE

DEPARTMENT - COMPUTER ENGINEERING

TOTAL STUDENTS -
23

ACADEMIC YEAR - 2022-2023

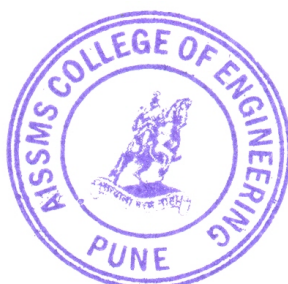
SUBJECT - COMPUTER NETWORKS AND SECURITY LABORATORY
(PRACTICAL)

SEMESTER 5 (A)

DATE - 11/11/2022

TERM - END TERM

| SR NO | QUESTION | EXCELLENT | VERY GOOD | GOOD | SATISFACTORY | NOT SATISFACTORY | TOTAL MARKS | OUT OF | PERCENTAGE |
|----------|---|-----------|--------------|------|--------------|---------------------|------------------------|-----------|------------|
| 1 | HAS THE TEACHER COVERED ENTIRE SYLLABUS AS PRESCRIBED BY UNIVERSITY, COLLEGE, BOARD | 11 | 9 | 1 | 2 | 0 | 98 | 115 | 85% |
| 2 | HAS THE TEACHER COVERED RELEVANT TOPICS BEYOND SYLLABUS | 12 | 8 | 2 | 1 | 0 | 100 | 115 | 87% |
| 3 | EFFECTIVENESS OF TEACHER IN TERMS OF TECHNICAL CONTENT /COURSE CONTENT, COMMUNICATION SKILLS AND USE OF TEACHING AIDS | 11 | 9 | 2 | 1 | 0 | 99 | 115 | 86% |
| 4 | PACE ON WHICH CONTENTS WERE COVERED | 13 | 5 | 4 | 1 | 0 | 99 | 115 | 86% |
| 5 | MOTIVATION AND INSPIRATION FOR STUDENTS TO LEARN | 13 | 6 | 3 | 1 | 0 | 100 | 115 | 87% |
| 6 | SUPPORT FOR THE DEVELOPMENT OF STUDENTS SKILL PRACTICAL DEMONSTRATION, HANDS ON TRAINING | 14 | 4 | 4 | 1 | 0 | 100 | 115 | 87% |
| 7 | CLARITY OF EXPECTATIONS OF STUDENTS | 12 | 6 | 4 | 1 | 0 | 98 | 115 | 85% |
| 8 | FEEDBACK PROVIDED ON STUDENTS PROGRESS | 13 | 3 | 6 | 1 | 0 | 97 | 115 | 84% |
| 9 | WILLINGNESS TO OFFER HELP AND ADVICE TO STUDENTS | 12 | 7 | 3 | 1 | 0 | 99 | 115 | 86% |
| TOTAL | | 111 | 57 | 29 | 10 | 0 | 890 | 1035 | 86% |
| TOTAL(%) | | 54% | 28% | 14% | 5% | 0% | PERFORMANCE INDEX - 86 | | |



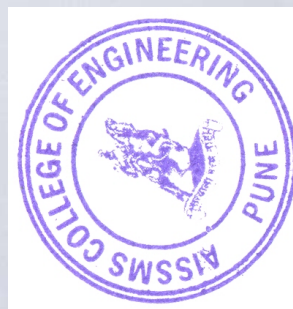
AISSMS College of Engineering, Pune
Academic Teaching Review
Name of the Department : Civil Engineering

Class : SE A

Term : 10/08/2023 - 04/12/2023

| Sr. No. | Name of Faculty | Subject | No. of lecture/Practical Allotted | | No. of lecture/Practical Conducted | | Availability till 04.12.2023 | | No of Extra Lecture/Practical required | | Percentage of Syllabus Covered | | Sign |
|--------------|------------------|---|-----------------------------------|-----------|------------------------------------|-----------|------------------------------|-----------|--|-----------|--------------------------------|-----------|------|
| | | | Theory | Practical | Theory | Practical | Theory | Practical | Theory | Practical | Theory | Practical | |
| 1 | C S Misal | Building Technology Architecture of Planning | 36 | 24 | 22 | 12 | 14 | 12 | — | — | 55% | 50 | CH |
| 2 | S A Chavan | Mechanics of Structure | 36 | 24 | 23 | 10 | 13 | 14 | — | — | 50% | 65% | SC |
| 3 | Dr. S K Nalawade | Fluid Mechanics | 42 | — | 16 | — | 18 | — | — | — | 50% | — | SK |
| 4 | M Gauratra | Engineering Maths III | 36 | 36 | 23 | 21 | 13 | 15 | No | No | 40% | 40% | CG |
| 5 | C Travya | Engineering Geology | 36 | 36 | 18 | 22 | 12 | 10 | — | — | 40% | 40% | CG |
| 6 | Dr V S Chavhan | Fluid Mechanics | NOT SUBMITTED | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| Class : SE B | | | | | | | | | | | | | |
| 1 | S P Khedekar | Building Technology Architecture of Planning | 36 | 24 | 23 | 16 | 14 | 12 | — | — | 60 | 60 | SK |
| 2 | Dr. S R Parekar | Mechanics of Structure | 36 | — | 25 | — | 15 | — | 03 | — | 55% | — | SRP |
| 3 | Dr. P B Nangare | Fluid Mechanics | 42 | 11 | 23 | 08 | 19 | 03 | — | — | 50% | 75% | PNB |
| 4 | M Gauratra | Engineering Maths III | 36 | 36 | 25 | 15 | 11 | 21 | No | No | 40% | 40% | CG |
| 5 | C Travya | Engineering Geology | 36 | 36 | 17 | 14 | 18 | 18 | 5 | NO | — | — | |
| 6 | Dr V S Chavhan | Fluid Mechanics | NOT SUBMITTED | | | | | | | | | | |
| 7 | Dr S K Nalawade | Mechanics of Structure | — | 12 | 07 | 07 | — | 10 | — | — | 65% | — | SK |
| 8 | | | | | | | | | | | | | |

Acad
Dr. B. B. Bhatnagar



HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.



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Department of Civil Engineering

VISION:-Nurture the talent in Civil Engineers to work as global leaders for development of society.

Ref. No. :- Civil/23-24/ 1632 / 26/07/2023

Date : 26/07/2023

Submitted:-

Subject :- Phone call record to students parent

With respect to above subject please find attached here with details of phone call to parent of TE & B.E Civil Engineering students on dated 19/07/2023 & 20/07/2023 & details of reported students is attached herewith .

GFM

| Sr. No. | Class | GFM | Signature |
|---------|--------|-----------------|-----------|
| 1 | TE (A) | Dr. U R Awari | : |
| 2 | TE (B) | Dr. S D Nagrale | : |
| 3 | BE (A) | Dr. V S Chavhan | : |
| 4 | BE (B) | Mr. P R Modak | : |

Through HOD forwarded for doing the booklet and consideration.

To

The Principal

AISSMS COE, Pune-1

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.



Academic Co-ordinator
Dr. B. D. Bechar

Mission: - M1: Provide quality education to develop competent Civil Engineers.
M2: Create awareness among students for sustainable development.
M3: Cultivate the leadership qualities for becoming successful entrepreneurs.



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(Id.No. PU / PN/ Engg. / 093 (1992))
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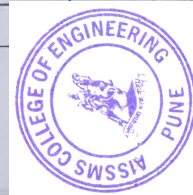
INTERNAL QUALITY ASSURANCE CELL

DEPARTMENT OF E&TC ENGINEERING

ACADEMIC AUDIT BY PAQIC (2022- 2023)

COURSE FILE (PART B)

| Sr. No. | Details | Name of Faculty | Name of Faculty | Name of Faculty | Name of Faculty | Name of Faculty | Name of Faculty | |
|---------|---|-----------------|--------------------|-----------------|-----------------|------------------|------------------|-------------------|
| | | VSN | VSN | PPV | PPV | NDN | VDN | PPT |
| | | EC SE- sem I | PCS (SE) SEM-II | EC TE- sem I | CN TE- sem I | DBM TE- sem I | PM TE- sem II | AJP TE- sem II |
| | | (Y/N) | (Y/N) | (Y/N) | (Y/N) | (Y/N) | (Y/N) | |
| 1 | College Academic Calendar, Department Academic Calendar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | Class Time Table, Individual Time Table | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | Teaching Plan | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | List of Course Outcomes (CO) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | CO-PO mapping, CO-PSO mapping | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | CO Assessment Tools and weight age | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 | CO-PO-PSO attainment record | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |



| | | | | | | | | |
|----|--|----|---|----|----|----|-----------|----|
| 9 | Unit test papers (with CO) along with marking scheme and solution, sample answer papers (Best and average) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10 | Attendance Record | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | Continuous Assessment sheet | ✓ | ✓ | ✓ | ✓ | ✓ | NA | ✓ |
| 11 | Make up/ Remedial Lectures record | NA | ✓ | NA | NA | NA | NA | ✓ |
| 12 | Defaulter Lists | NA | ✓ | NA | ✓ | NA | NA | ✓ |
| 13 | Last three year Subject Results | ✓ | ✓ | NA | NA | NA | NA (Left) | NA |
| 14 | Report of Guest Lectures | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15 | Report of Industry Visits | ✓ | ✓ | ✓ | ✓ | NA | ✓ | ✓ |
| 16 | Reports of Student centric methods used to teach the course | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17 | Students feedback | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18 | Report of activities conducted for enhancement of course teaching | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19 | Course end Survey | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20 | Feedback for syllabus revision from stakeholders (Feedback/Analysis/ Action taken report) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Inavale

Inavale
25/1/23

For
25/1/23

For
25/1/23

Inavale
25/1/23

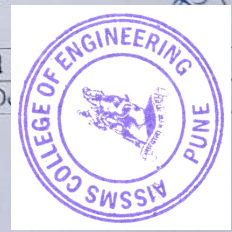
Inavale
25/1/23

For
25/1/23

(Name and Signature)
Module coordinator

(Name and Signature)
Academic Coordinator
Ms. Y. K. Funele

(Name and Signature)
Head of Department





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DEPARTMENT OF Mechanical ENGINEERING

GFM MEETING

| | | | |
|----------------------|----------------|-----------------|------------|
| Academic Year | 2022-23 | Term | I/II |
| Class | FE/SE/TE/BE | Division | A/B |
| Name of GFM | Ms. P. R. Tete | Date of Meeting | 03/02/2023 |
| Total Class strength | | Meeting Number | 1 |

1. Syllabus coverage (Theory)

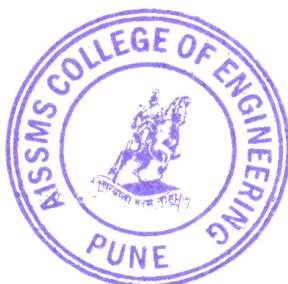
| S N | Subject | Name of teacher | No. of lectures | | Units completed | % of syllabus covered |
|-----|---------|--------------------|-----------------|-----------------------|-----------------|-----------------------|
| | | | Planned (Total) | Conducted (Till date) | | |
| 1 | CIM | Dr. S.H. Wankhade | 45 | 04 | 0.5 | 10% |
| 2 | EE | Dr. C.S. Choudhary | 45 | 03 | 0.4 | 10% |
| 3 | GRE | Dr. B.D. Bachhav | 45 | 04 | 0.5 | 10% |
| 4 | EAM | Dr. M.S. Peshmukh | 45 | 04 | 0.5 | 10% |
| 5 | EHV | Dr. P.S. Gajjal | 45 | 03 | 0.4 | 10% |
| 6 | RET | Ms. P. R. Tete | 45 | 04 | 0.5 | 10% |
| 7 | | | | | | |

2. Syllabus coverage (Practical)

| 2. Syllabus coverage (Practical) | | | | | | | | | | | | | | | |
|----------------------------------|---------------------|-----------------|------------------|----|----|----|-----------------------|---|---|---|----------------------|---|---|---|----------------------------|
| S N | Practical | Name of teacher | No. of Practical | | | | | | | | | | | | Usage of V-Lab (Till date) |
| | | | Planned (Total) | | | | Conducted (Till date) | | | | Assessed (Till date) | | | | |
| | | | A | B | C | D | A | B | C | D | A | B | C | D | |
| 1 | MSAL | M.P. Shah | 11 | - | 11 | - | 1 | 1 | 1 | 1 | - | - | - | - | - |
| 2 | MSAL | A.T. Thombare | 11 | 11 | 11 | 11 | 1 | 1 | 1 | - | - | - | - | - | 1 |
| 3 | MSAL CIM | MSS | - | - | 12 | - | - | - | 2 | - | - | - | - | - | 1 |
| 4 | CIM | CNG | 12 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |

3. Alternate arrangements (If any) for Lecture/Practical

| Name of staff | Subject | A |
|---------------|---------|---|
| | | |
| | | |
| | | |
| | | |



| Reason |
|--------|
| |
| |
| |
| |

4. Test & Assignments completed till date

| S N | Subject | Name of teacher | Prerequisite Test Conducted (Y/N) | Unit tests Conducted (Y/N) | | | Assignments Conducted (Y/N) | | Activity done (Y/N) |
|--------|---------|------------------|--|-------------------------------|----|-----|--------------------------------|----|------------------------|
| | | | | I | II | III | I | II | |
| 1 | EHV | PS Gajjal | N | | | | | | |
| 2 | CORE | Dr B D Barchekar | Not Yet | | | | | | |
| 3 | RET | yes PRT | Y | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |

5. Any other activity conducted for entire class (E.g. Industry visit/Expert talk/Webinar/Quiz/Mid term-End term feedback/Project review/Seminar/Exhibition/remedial class etc.)

| Name of Coordinator | Subject | Activity type | Date | Number of students attended | Activity Feedback taken (Y/N) |
|---------------------|---------|---------------|------|-----------------------------|-------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

6. Display of list of students having less than 75 % attendance (ERP) fortnightly : (Y/N)

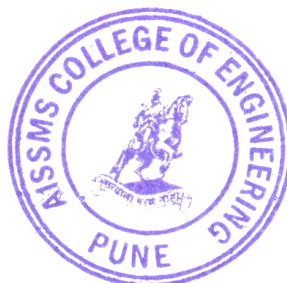
7. Any other point for discussion/action taken for students having less attendance/not reported:

| |
|--|
| |
| |
| |
| |
| |
| |
| |

Following faculty members attended the meeting:

| Name of Faculty | Sign | Name of Faculty | Sign |
|------------------|---|-----------------|------|
| Dr B D Barchekar |  | | |
| M P Sheikh |  | | |
| A + Thornbare |  | | |
| PSG |  | | |
| MSS |  | | |

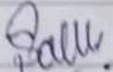
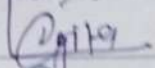


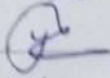


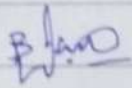
GFM
Name & Sign
Ms. P. R. Tete



Dept. Academic Coordinator
Name & Sign
Dr P S Gajjal

12/5/23

A meeting of academic co-ordinators is scheduled on 12/5/23 at 3 PM. following members were present.

| | |
|-------------------|---|
| S B Dhekale |  |
| N K Funde |  |
| Dr. P S Gajal |  |
| AS Dede |  |
| Dr. M. K. Nikam - |  |
| P S Teacher |  |
| C. S. Misal |  |
| Dr B D Bachehar |  |

Following points were discussed:

- Class test-III for TE & BE rescheduling.
- Class test-II of SE rescheduling.
- Discussion on Project exhibition was held.
- Probable schedule for TW/or/Pr was held.



2023-24 Term I

31/7/2023

A meeting of department academic co-ordinators is scheduled on 31/7/2023 at 3:30 pm in Mechanical conference room. Following members were present.

Dr B D Bachhav ~~Plm~~
P S Tadkar ~~Plm~~

K N Kulkarni ~~ICB~~
S K Birla ~~Plm~~

Dr. D. P. Gaikwad - ~~ICB~~
S B Dhokale - ~~Plm~~
Y K Fude - ~~Plm~~

Following members were absent:- 1) Dr P S Gajjal.
2) Dr M K Nilkam

Following points were discussed.

- Discussed about status of reporting and non reporting students.
- Every department should collect undertaking form from the students.
- Make up lectures: For late reported students make up lectures should be arranged from 3 to 4 pm. after 6th August 2023
- Discussed about ERP updates.
- Discussed about Project Guidelines
- Discussed about GPM meeting.
- Discussed about Prerequisite test.

Syllabus for Assignment Unit based

Assignment I: Unit I & II 20 Marks

Each unit will carry 10 marks

Assignment II: Unit III, IV, V & VI → 40 marks
Each unit will carry 10 marks





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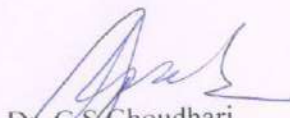


INTERNAL QUALITY ASSURANCE CELL

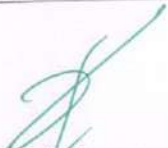
Committees for External Academic and Administrative Audit (AAA) (A.Y. 2022 – 23)

| Chemical Engineering | Civil Engineering | Computer Engineering | Electrical Engineering | ENTC Engineering | Mechanical Engineering | Production Engineering / Robotics and Automation | First Year Engineering |
|----------------------|-------------------|-----------------------|------------------------|-----------------------|------------------------|--|------------------------|
| Principal | Principal | Principal | Principal | Principal | Principal | Principal | Principal |
| Dr.Badadhe A M | Dr.Badadhe A M | Dr. P P Bartakke | Dr. P P Bartakke | Dr. P P Bartakke | Dr.Badadhe A M | Dr.Badadhe A M | Dr. P P Bartakke |
| Dr. Hemant Joshi | Dr. Hemant Joshi | Dr. Parikshit Mahalle | Dr. Parikshit Mahalle | Dr. Parikshit Mahalle | Dr. Hemant Joshi | Dr. Hemant Joshi | Dr. Parikshit Mahalle |
| Dr. Trupti Chitre | Dr. Trupti Chitre | DR. Mrinalini Damle | DR. Mrinalini Damle | DR. Mrinalini Damle | Dr. Trupti Chitre | Dr. Trupti Chitre | DR. Mrinalini Damle |
| Dr P B Nangare | Dr S V Athawale | Dr N G Shekapure | Dr S B Dhonde | Dr D V Nighot | Dr. (Mrs) A A Godbole | Dr M Y Naniwadekar | Dr S H Wankhade |
| Dr D Y Dhande | Dr K B Chaudhari | Dr V N Patil | Dr. B D Bachchhav | Dr S F Sayyad | Mr N P Mawale | Dr P S Gajjal | Dr S R Parekar |
| HoD | HoD | HoD | HoD | HoD | HoD | HoD | HoD |

❖ Head of Department of host department will be the coordinator of academic and administrative audit of the concerned department.


Dr. C S Choudhari
Coordinator, IQAC




Dr. D S Bormane
Principal



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INTERNAL QUALITY ASSURANCE CELL

Date: 02/11/2023

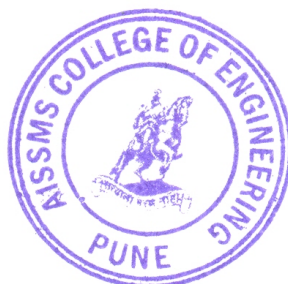
Subject: Schedule for AAA 2022-23 report checking and verification of supporting documents

For checking of AAA 2022-23 reports and for verifying all the details expected and mentioned in the audit report, committee comprising of Dr C S Choudhari, IQAC Coordinator and Dr B D Bachchhav, Institute academic coordinator will be visiting to the departments as per the following schedule.

| SN | Department | Day | Time |
|----|------------------------|-----------------------|----------------------|
| 1 | Electrical Engineering | Day One 06/11/2023 | 8.30 AM to 10.30 AM |
| 2 | Computer Engineering | | 10.30 AM to 12.30 PM |
| 3 | E & TC Engineering | | 1.0 PM to 3.00 PM |
| 4 | First Year Engineering | | 03.00 PM to 05.00 PM |
| 5 | Mechanical Engineering | Day Two 07/11/2023 | 8.30 AM to 10.30 AM |
| 6 | Civil Engineering | | 10.30 AM to 12.30 PM |
| 7 | Production Engineering | | 1.0 PM to 3.00 PM |
| 8 | Chemical Engineering | | 03.00 PM to 05.00 PM |

Departments should keep all the required details ready for verification. Audit report should comprise of all the enclosures mentioned in the audit report format along with observation sheets of internal and external panel members

Dr. C S Choudhari
Coordinator, IQAC



Dr. D S Bormane
Principal



Minutes of HOD Meeting

Date: 17/04/2023

An exclusive meeting was called to discuss on academic results of Term-I, AY 2022-23, April 17, 2023, at 02:30 PM in conference hall. Following members were present for the meeting:

| SN | Name | SN | Name |
|----|------------------|----|--------------------|
| 1 | Dr A A Godbole | 2 | Dr S F Sayyad |
| 3 | Dr P B Nangare | 4 | Dr S V Chaitanya |
| 5 | Dr S B Dhonde | 6 | Mr S S Kallurkar |
| 7 | Dr M K Nikam | 8 | Dr B D Bachchhav |
| 9 | Dr C S Choudhari | 10 | Dr M Y Naniwadikar |
| 11 | Dr M R Phate | | |

Following points were discussed and decisions were taken:

1) A brainstorming session on causes of poor results was held. Following reasons were discussed by the HoDs, Academic Coordinator and IQAC:

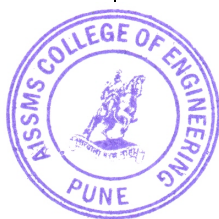
- This is an impact of COVID 19 Pandemic and online mode of teaching to some extent. Students are not cleared their fundamentals particularly in mathematical subjects and problem solving ability is deprived.
- Quality of incoming students to Civil, Mechanical, Production branches is not so good as compared to Computer, E&TC and Electrical students.
- Students are having less practice of writing answers in stipulated time.
- Note taking ability in class is not so good.
- Attendance in class is very poor.
- Students are less attentive in class.
- 100 % syllabus coverage for Unit III to VI is required. Any one unit is not taught completely will likely to hamper end sem results.
- Major reason is due to University examination and academic schedule, those student have to appear for FE backlog examination are given SE Insem examination without any preparation time.



- Students participating in cultural, sports, extra-curricular activities and Co-curricular activities are getting less time for preparation. A policy need to be framed for this.

2) Based on suggestions received following remedial actions are to be taken in order to improve results in coming academic session:

- Mentors to play a crucial role and conduct a meeting with the students who are having backlog subjects. Give phone calls to parents regarding students' attendance and academic results. Mentors to ask students to make their own time-table about the studies.
- SMS are to be send to parents regarding non-satisfactory performance of their ward through ERP.
- It is mandatory to complete remaining 4 Units with 100 % syllabus coverage.
- Use of blackboard is mandatory for mathematical subjects. Mathematical subjects shall not be taught using PPTs. More focus on numerical solving to be given.
- Extra-lectures/crash course to be planned for backlog subject during 1st to 20th May 2023.
- Class tests are to be taken very seriously by students. It has to be made mandatory. Students are absent in class tests to solve complete question paper with options and submit to concern teacher within stipulated time. Subject teacher to set Question Paper of Class Tests considering high probability of asking the questions in End sem Examination.
- Students must attend 100% classes in coming 30-45 days.
- Question bank to be provided by every faculty members.
- Make a group of 5 students. Encourage Peer-to-peer learning in free time by the students.
- Few activities are too curtailed expect Expert talk and Industry visits till semester end and more focus is to be given on academics. Any activity to should be planned preferably after 3:00 PM.
- In-sem result to be told to students immediately after uploading on university intmarks portal and make aware of their performance in a particular subject.
- Doubt clearing sessions/slots to be given by each department. Students to approach faculty members in that allotted time.
- Students to improve their note taking skills
- Expectations of examiners regarding depth and width of answer on each topic are to be discussed in class.
- Extra classes for backlog students to be conducted during 1-20 May 2023. Time table to be communicated to Institute Academic Coordinator.





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- TW, Assignments to be given well before and assessed continuously.
- Felicitation of Toppers to be done in the department on regular basis.
- Encourage peer to peer learning through class study circle activity. IQAC will conduct a meeting of class study circle members.
- HoDs to monitor above activities with the help of Department Academic Coordinator.

Meeting was ended with vote of thanks.

Dr D S Bormane
Principal

Copy to: Principal office, All HoDs





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(Id. No. PU / PN/ Engg. / 093 (1992)
(Accredited by NAAC with grade A+)



Department of Chemical Engineering

AY: 2022-23 (Term-II)

Date: 09/03/2023

Subject: Process Modeling and Simulation

Course Code: 409349

Total Marks: 30

Test-I (Unit-I and II: Conservation Equations, Modeling of Fluid Flow Operations)

Instruction for the students:

- (i) Assume suitable data if required
- (ii) Figures to the right indicate full marks.
- (iii) Use of programmable calculator is allowed.
- (iv) Write all necessary steps.
- (v) Answer any three questions

COs:

CO1: Derive and apply laws of conservation of mass, momentum and energy needed for modelling.

CO2: Develop model equations for Fluid Flow Phenomena.

| QN | Questions | Marks | BL | CO |
|----|--|-------|----|----|
| 1 | Define following terms: a) Modeling and simulation b) Lumped parameter model c) Distributed Parameter model d) State space model e) Degrees of freedom analysis | 10 | L1 | I |
| 2 | Applying law of conservation of mass and energy, derive the model equations for stirred heating tank. Make suitable assumptions. | 10 | L2 | I |
| 3 | An incompressible Newtonian liquid is flowing very slowly into a thin slot of thickness $2B$ (in the y direction) and width W (in the z direction). Derive model equation for the system. Make suitable assumptions. | 10 | L3 | II |



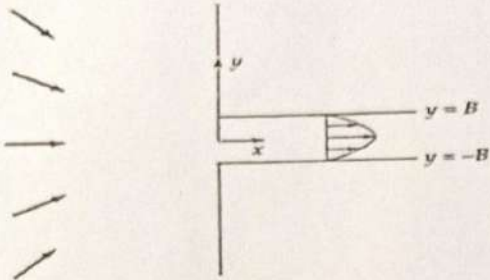
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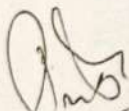
COLLEGE OF ENGINEERING

ज्ञानम् सकलजगदिताय

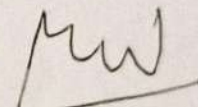
Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra,
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(Id.No. PU / PN/ Engg. / 093 (1992))
(Accredited by NAAC with grade A⁺)



| | | | | |
|---|--|----|----|----|
| |  | | | |
| 4 | Derive 3-D continuity equation for the fluid flow using differential analysis. | 10 | L3 | II |
| | BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating) | | | |
| | CO – Course Outcomes | | | |


Faculty


Module Coordinator


Head



ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING

KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name MIHIR PARAB

Roll No.: 19CHO33

Subject PMS

Division: B.E Chemical

Examination Test 1

Day & Date: Thursday 9/3/2023

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | | | | | | | | | | | 14/15 |

Examiner Signature

Q1.

→ a) Modeling & Simulation:

Expressing a process in terms of Mathematical equations to achieve desired output of the actual/real life process is called as Modeling.

Types of Models: (i) Linear & Non-linear models.

(ii) Steady & Unsteady models; (iii) Lumped parameter & distributed parameter model.

(iv) State space model & transform domain models.

Simulation → Testing of mathematical models/equations using a computer program or software or by analytical method is called simulation.

b) Lumped Parameter Models:

Lumped Parameter representation means that spatial variations are ignored & ~~that~~ the various properties and the state of system can be considered homogenous throughout the entire system.

Eg: Consider a perfectly insulated stirred tank where a hot liq. stream at 50°C is mixed with a cold liq. stream at 10°C . The well mixed assumption means

that the fluid temp in tank is uniform & equal to the exit from tank. Since the temp does not vary with position.

c) Distributed Parameter System:

A distributed parameter system takes into account detailed variations in behaviour from point to point throughout the system. All systems are of course distributed in as there are some variations throughout them. Many times the variations are very small, so they may be ignored & the system can be treated as 'lumped system'.

Eg: A simple counter current heat exchange \rightarrow As cold water flows through one side of HEX & is heated by energy transferred from condensing steam stream. This is distributed parameter sys. as the temp. of water is changing with time & position.

05 d) State Space Model:

State space models are models that use state variables to describe a system by a set of 1st order differential equations, rather than by one or more n^{th} order differential eqn.

If the set of 1st order differential equation is linear in the state & input variables, the model is referred to as a linear space state model.

e) Degree of Freedom

Degree of freedom is defined as each of a number of independently variable factors affecting the range of states in which a system may exist, in particular any of the directions in which independent motion can occur.

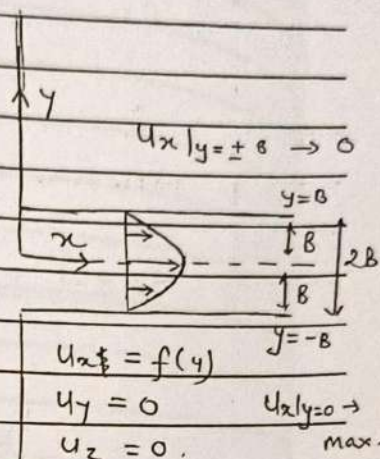
Q3

→ Process → Physical process.

- By Applying law of Conservation of Momentum.

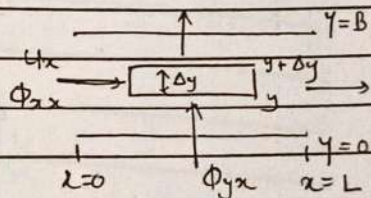
$$\text{Input} - \text{Output} + \text{Generation} - \text{Consumption} = \text{Accumulation}$$

$$\Rightarrow \text{Input} = \text{Output}$$



- Assumptions:
- 1) 1-D Flow
 - 2) Steady state flow
 - 3) Physical properties const.
 - 4) Incompressible & isothermal.

$$u_x = f(y), \quad u_y = u_z = 0.$$



Q5

- Model Derivation:

$$\text{Rate of Momentum in} = (\Phi_{xx}|_{x=0})(B \cdot W) + (\Phi_{yx}|_y)(L \cdot W)$$

$$\text{Rate of Momentum out} = (\Phi_{xx}|_{x=L})(B \cdot W) + (\Phi_{yx}|_{y+\Delta y})(L \cdot W)$$

By Law of conservation of Momentum.

$$\therefore (\text{Rate of Momentum in}) - (\text{Rate of Momentum out}) = 0$$

$$(B \cdot W)(\Phi_{xx}|_{x=0}) - (B \cdot W)\Phi_{xx}|_{x=L} + (\Phi_{yx}|_y)(L \cdot W) - (L \cdot W)\Phi_{yx}|_{y+\Delta y} = 0$$

Dividing by $\Delta y WL$ & taking limits $\Delta y \rightarrow 0$.

$$\therefore \frac{d}{dy}(\Phi_{yx}) = \frac{\Phi_{xx}|_{x=0} - \Phi_{xx}|_{x=L}}{L}$$

$$\Phi_{xx} = P(x) + \tau_{xz}^{(0)} + S u_x$$

$$\Phi_{yx} = 0 \rightarrow \mu \frac{du_x}{dy} = 0$$

$$\therefore \frac{d}{dy} \left(\frac{-\mu \frac{du_x}{dy}}{dy} \right) = \frac{P|_{x=0} - P|_{x=L}}{L}$$

Integrating, we get

$$-\mu \frac{du_x}{dy} = \left[\frac{P_0 - P_L}{L} \right] y + C_1$$

$$\text{at } y=0, \tau_{yx} = 0$$

$$\Rightarrow C_1 = 0$$

$$\therefore -\mu \frac{du_x}{dy} = \left[\frac{P_0 - P_L}{L} \right] y$$

$$\therefore \frac{du_x}{dy} = \frac{P_0 - P_L}{-\mu L} \cdot y$$

Integrating we get

$$u_x = \frac{P_0 - P_L}{-\mu L} \frac{y^2}{2} + C_2$$

$$\text{At } y = \pm B, u_x = 0$$

$$\Rightarrow C_2 = \left[\frac{P_0 - P_L}{-2\mu L} \right] B^2$$

$$u_x = \left[\frac{P_0 - P_L}{2\mu L} \right] B^2 \left[1 - \left(\frac{y}{B} \right)^2 \right]$$

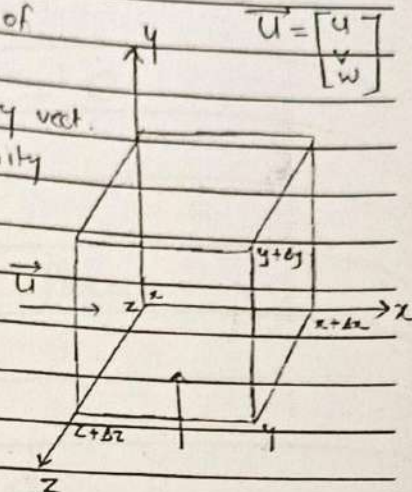
Velocity profile inside a horizontal tube.

Q4

→ Consider a rectangular element of space length

The components of fluid velocity vect. \vec{U} are u, v & w and density of fluid is

The volume of element
 $= \Delta x \Delta y \Delta z$



Applying mass balance over the element.

$$\begin{aligned} & \left(\text{Rate of mass in at } x, y, z \right) - \left(\text{Rate of mass out at } x+\Delta x, y+\Delta y, z+\Delta z \right) + \left(\text{Rate of mass generated or consumed} \right) \\ & = \left(\text{Rate of mass accumulated} \right) \quad \text{--- (i)} \end{aligned}$$

$$\therefore (\text{Rate of mass in}) = \Delta y \Delta z (\rho u)|_x + \Delta x \Delta z (\rho v)|_y + \Delta x \Delta y (\rho w)|_z$$

$$\text{Rate of mass out} = \Delta y \Delta z (\rho u)|_{x+\Delta x} + \Delta x \Delta z (\rho v)|_{y+\Delta y} + \Delta x \Delta y (\rho w)|_{z+\Delta z}$$

$$\text{Rate of mass accumulated} = \frac{dM}{dt} = \frac{d(\rho V)}{dt} = (\Delta x \Delta y \Delta z) \frac{d\rho}{dt}$$

Substituting in (i).

$$\begin{aligned} & \left[\Delta y \Delta z (\rho u)|_x + \Delta x \Delta z (\rho v)|_y + \Delta x \Delta y (\rho w)|_z \right] - \left[\Delta y \Delta z (\rho u)|_{x+\Delta x} + \Delta x \Delta z (\rho v)|_{y+\Delta y} \right. \\ & \left. + \Delta x \Delta y (\rho w)|_{z+\Delta z} \right] = (\Delta x \Delta y \Delta z) \frac{d\rho}{dt} \end{aligned}$$

$$\therefore \frac{(\rho u)|_{x+\Delta x} - (\rho u)|_x}{\Delta x} + \frac{(\rho v)|_{y+\Delta y} - (\rho v)|_y}{\Delta y} + \frac{(\rho w)|_{z+\Delta z} - (\rho w)|_z}{\Delta z} + \frac{d\rho}{dt} = 0$$

$$\therefore \left[\frac{d\rho}{dt} + \frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z} \right] = 0 \quad \text{General eqn. of continuity.}$$

Special case:

1) for steady flow.

$$\frac{\partial \rho}{\partial t} = 0$$

$$\Rightarrow \frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z} = 0.$$

2) for steady & incompressible flow.

$$\rho = \text{constant}.$$

$$\Rightarrow \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0.$$

3) for compressible fluids:

$$\frac{1}{\rho} \left[\frac{\partial \rho}{\partial t} \right] + \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0.$$



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Supervisor's Signature

Name Aamod Rajurkar

Roll No.: 19CH038

Subject PMS

Division: B.E. CHEMICAL

Examination Unit Test - 1

Day & Date: 9.3.2023

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | | | | | | | | | | | 14/15 |

Examiner Signature

Q.1.)

a) Modeling & Simulation -

Expressing a process in terms of mathematical equations to achieve desired output of the actual process is called modeling.

Types of Models:

- Linear & Non-linear models
- Steady & Unsteady models
- Lumped parameter & distributed parameter model
- State space model & transform domain model.

Simulation - Testing of mathematical models/equations using a computer program or software or by analytical method is called simulation.

b) Lumped Parameter Model -

Lumped parameter model means that spatial variations are ignored & the various properties & the state of system can be considered homogenous throughout the entire system.

Eg.) consider a perfectly insulated stirred tank where a hot liq. stream at 50°C is mixed with a

cold liq. stream at 10°C . The well mixed assumption means the fluid temp. in tank is uniform & equal to the exit from tank, since the temp. does not vary with position.

c) Distributed Parameter System -

A distributed parameter system takes into account detailed variations in behaviour from point to point throughout the system. All systems are of course, distributed as there are some variations throughout them. Many times the variations are very small, so they may be ignored & system can be treated as the 'lumped system'.

d) State space model -

State space models are models that use state variables to describe a system by a set of 1st order differential equations, rather than by one or more n^{th} order differential eqn.

If the set of 1st order differential equation is linear in the state & input variables, the model is referred to as a linear space state model.

e) Degree of Freedom -

Degree of freedom is defined as each of a number of independently variable factors affecting the range of states in which a system may exist, in particular any of the directions in which independent motion can occur.

Q.3) Process \rightarrow Physical process

By applying law of conservation of momentum

Input - Output + Generation - Consumption = $\Delta \dot{C}$

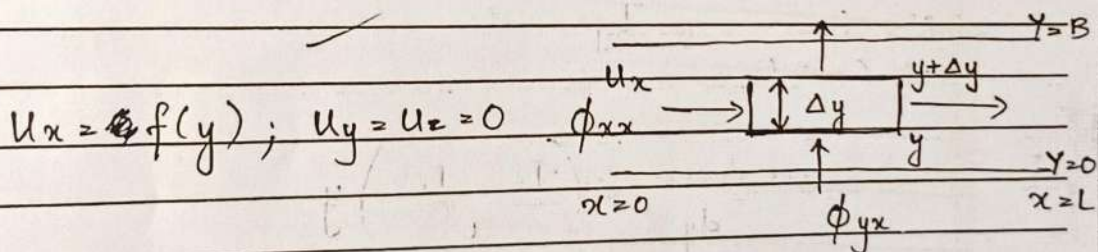
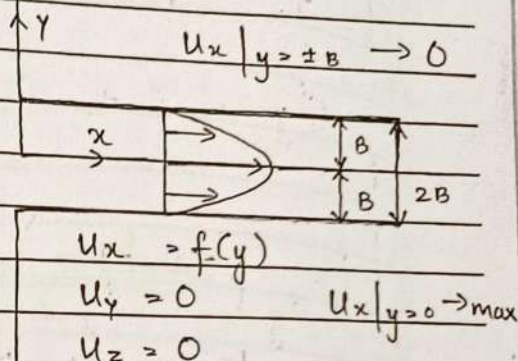
Input = Output

Assumptions: 1) 1-D flow

2) Steady state flow

3) Physical properties const.

4) Incompressible & isothermal



Model Deviation:

Rate of momentum in = $(\phi_{xx}|_{x=0})(\Delta y \cdot W) + (\phi_{yx}|_y)(L \cdot W)$

Rate of momentum out = $(\phi_{xx}|_{x=L})(\Delta y \cdot W) + (\phi_{yx}|_{y+\Delta y})(L \cdot W)$

By law of conservation of momentum

(ROM in) - (ROM out) = 0

$(\Delta y \cdot W)(\phi_{xx}|_{x=0}) - (\Delta y \cdot W)(\phi_{xx}|_{x=L}) + (\phi_{yx}|_y)(L \cdot W) - (\phi_{yx}|_{y+\Delta y})(L \cdot W)$

Dividing by $\Delta y \cdot W \cdot L$ & taking limits at $\Delta y \rightarrow 0$

$$\frac{d(\phi_{yx})}{dy} = \frac{\phi_{xx}|_{x=0} - \phi_{xx}|_{x=L}}{L}$$

$$\phi_{xx} = P(x) + \cancel{T_{xx}} + 3Ux^2$$

$$\phi_{yx} = 0 + u \frac{dUx}{dy} + 0$$

$$\therefore \frac{d}{dy} \left(-u \frac{dUx}{dy} \right) = \frac{P|_{x=0} - P|_{x=L}}{L}$$

Integrating, we get

$$-u \frac{dUx}{dy} = \left[\frac{P_0 - P_L}{L} \right] y + C_1$$

$$\text{at } y=0; T_{yx} = 0$$

$$\Rightarrow C_1 = 0$$

(57)

$$\therefore -u \frac{dUx}{dy} = \left(\frac{P_0 - P_L}{L} \right) y$$

$$\frac{dUx}{dy} = \frac{P_0 - P_L}{-uL} \cdot y$$

Integrating we get

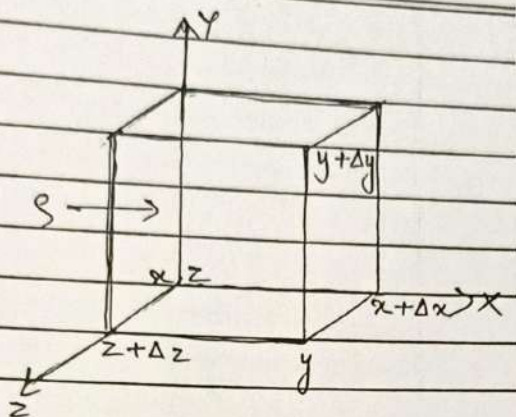
$$Ux = \frac{P_0 - P_L}{-uL} + C_2$$

$$\text{At } y = \pm B; Ux = 0$$

$$C_2 = \left(\frac{-P_0 - P_L}{-2uL} \right) B^2$$

$$Ux = \left(\frac{P_0 - P_L}{2uL} \right) B^2 \left(1 - \left[\frac{y}{B} \right]^2 \right)$$

Q.4.) Continuity Equn.



Mass balance:

$$\left(\text{Rate of mass in} \right) - \left(\text{Rate of mass out} \right) = \left(\text{Rate of mass accumulated} \right)$$

at x, y, z at $x+\Delta x, y+\Delta y, z+\Delta z$

$$(\rho u)|_x \Delta y \Delta z + \cancel{\Delta x \Delta z (\rho v)|_y} + \Delta x \Delta y (\rho w)|_z$$

$$- \Delta y \Delta z (\rho u)|_{x+\Delta x} - \cancel{\Delta x \Delta z (\rho v)|_{y+\Delta y}} - \Delta x \Delta y (\rho w)|_{z+\Delta z}$$

$$= \frac{dm}{dt} = \frac{d(\rho V)}{dt}$$

$$= \frac{d\rho (\Delta x \Delta y \Delta z)}{dt}$$

$$\frac{(\rho u)|_{x+\Delta x} - (\rho u)|_x}{\Delta x} + \frac{(\rho v)|_{y+\Delta y} - (\rho v)|_y}{\Delta y} + \frac{(\rho w)|_{z+\Delta z} - (\rho w)|_z}{\Delta z} + \frac{d\rho}{dt} = 0$$

By taking limits we get

$$\frac{d\rho}{dt} + \frac{d(\rho u)}{dx} + \frac{d(\rho v)}{dy} + \frac{d(\rho w)}{dz} = 0$$

$$\nabla \cdot (\rho \vec{u}) = 0$$



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KENNEDY ROAD, PUNE - 411 001.



Name Sunil Pardeshi

Roll No.: 19CH084

Supervisor's Signature

Subject PMS

Division: BE Chemical

Examination Test-1

Day & Date: Thursday 9/3/23

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | | | | | | | | | | | 11/15 |

Examiner Signature

14

→ a) Modeling & Simulation

Expressing a process in terms of mathematical equations to achieve desired output of the actual real life process is called as modeling.

Types of Model (i) linear & non linear model

(ii) Steady & unsteady models (iii) Lumped parameter & distributed parameter model.

(iv) State space model & transform domain models.

Simulation - testing of mathematical models / equations using a computer program or software. or by analytics method is called simulation.

b) Lumped parameter models:

Lumped parameter representation means that, spatial variation are ignored & the various properties and the state of system can be considered homogeneous throughout the entire system.

Eg. Consider a perfectly insulated stirred tank where a hot liq stream at 50°C is mixed with a cold liq stream at 10°C . The

well mixed assumption means that the fluid temp in tank is uniform & equal to the exit temp since the temp does not vary with position.

c) Distributed Parameter System.

A distributed parameter system takes into account detailed variation in behaviour from point to point throughout the system. All systems are of course distributed as there are some of H₂O & it is heated by energy transferred from condensing steam stream. This is distributed parameter sys as the temp of water is changing with time & position.

d) State Space model.

State space models are models that use state variation to describe a system by a set of 1st order differential equations rather than by one or more n^{th} order differential eqn.

If one set of 1st order differential equation is linear in the state & input variables, the model is referred to as a linear space state model.

e) Degree of freedom

Degree of freedom is defined as each of a number of independently variable factors affecting the range of states in which a system may exist, in particular any of the direction in which independent motion can occur.

well mixed assumption means that the fluid temp in tank is uniform & equal to the exit temp tank since the temp does not vary with position.

c) Distributed Parameter System.

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If one set of 1st order differential equation is linear in the state & input variables, the model is referred to as a linear space state model.

e) Degree of freedom

Degree of freedom is defined as each of a number of independently variable factors affecting the range of states in which a system may exist. In particular, any of the direction in which independent motion can occur.


→ Process → Physical process.

- By Applying law of Conservation of momentum.

Input - Output + Generation = 0
 $\text{Conservation} = \text{Accumulation}$

* Input = Output

- Assumption 1) 1-D flow
- 2) Steady state flow
- 3) Physical properties const.
- 4) Incompressible & Isothermal


$$u_x = f(y) \quad , \quad u_y = u_z = 0$$

- Model Derivation

$$\text{Rate of momentum in} = (\phi_{xx}|_{x=0}) (\Delta y w) + (\phi_{yx}|_y) (L w)$$

$$\text{Rate of momentum out} = (\phi_{xx}|_{x=L}) (\Delta y w) + (\phi_{yx}|_{y=L}) (L w)$$

By law of conservation of momentum.

$$\therefore (\text{Rate of momentum in}) - (\text{Rate of momentum out}) = 0.$$

$$(\Delta y w) (\phi_{xx}|_{x=0}) - \Delta y \phi_{xx}|_{x=L} - (\phi_{yx}|_y) (L w) - (L w) \phi_{yx}|_{y=L} = 0$$

Dividing by $\Delta y w L$ & taking limits $\Delta y \rightarrow 0$

$$\frac{d}{dy} (\phi_{yx}) = \phi_{xx}|_{x=0} - \phi_{xx}|_{x=L}$$

$$\phi_{yx} = p(n) + \frac{1}{2} \rho U_m^2$$

$$\phi_{yx} = 0 + \mu \frac{du_x}{dy} \text{ to}$$

$$\frac{d}{dy} \left(-\mu \frac{du_x}{dy} \right) = \frac{P|_{x=0} - P|_{x=L}}{L}$$

Integrating, we get

$$-\mu \frac{du_x}{dy} = \left[\frac{P_0 - P_L}{L} \right] y + C_1$$

$$\text{at } y=0 \quad u_x=0$$

$$\Rightarrow C_1 = 0$$

$$-\mu \frac{du_x}{dy} = \left[\frac{P_0 - P_L}{L} \right] y$$

$$\therefore + \frac{du_x}{dy} = \frac{P_0 - P_L \cdot y}{-\mu L}$$

Integrating we get

$$u_x = \frac{P_0 - P_L}{-2\mu L} y^2 + C_2$$

$$\text{At } y = \pm B, \quad u_x = 0$$

$$\Rightarrow C_2 = \left[\frac{P_0 - P_L}{-2\mu L} \right] B^2$$

$$u_x = \left[\frac{P_0 - P_L}{2\mu L} \right] B^2 \left[1 - \left(\frac{y}{B} \right)^2 \right]$$

velocity profile inside a horizontal tube.

Sol-7.

Law of Conservation

a) Continuity Eqn / mass Conservation:

$$\text{Eq of Continuity: } \underbrace{\frac{\partial \rho}{\partial t}}_{\text{dynamic term}} + \underbrace{\frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z}}_{\text{convection/advection term}} = 0$$

velocity Velt

$$\vec{u} = \begin{bmatrix} u \\ v \\ w \end{bmatrix}$$

\therefore Mass balance

$$\begin{aligned} & \left(\text{Rate of mass in at } x, y, z \right) - \left(\text{Rate of mass out at } x+\Delta x, y+\Delta y, z+\Delta z \right) + \left(\text{Rate of mass generated or consumed} \right) \\ & = \left(\text{Rate of mass accumulated / depleted} \right) \end{aligned}$$

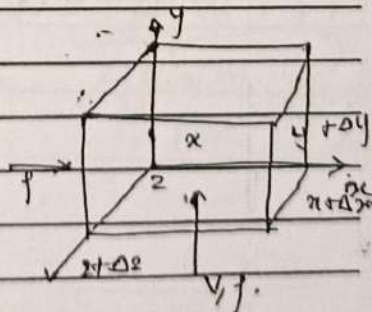
$$(\Delta y \Delta z (\rho u)|_x + \Delta x \Delta z (\rho v)|_y + \Delta x \Delta y (\rho w)|_z)$$

$$- \Delta y \Delta z (\rho u)|_{x+\Delta x} + \Delta x \Delta z (\rho v)|_{y+\Delta y} + \Delta x \Delta y (\rho w)|_{z+\Delta z}$$

$$= \frac{d\rho}{dt} \Delta x \Delta y \Delta z$$

$$= \frac{d\rho}{dt} \Delta x \Delta y \Delta z = \frac{d\rho}{dt} \Delta x \Delta y \Delta z$$

$$(\rho u)|_x + \frac{\Delta x}{\Delta x} (\rho u)|_x + \frac{(\rho v)|_{y+\Delta y} - (\rho v)|_y}{\Delta y} + \frac{(\rho w)|_{z+\Delta z} - (\rho w)|_z}{\Delta z} + \frac{d\rho}{dt} = 0$$



By taking limit we get

$$\frac{\partial \rho}{\partial t} + \frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z} = 0$$

eqn of continuity

$$\frac{d}{dt} (\rho \vec{u}) = 0$$

This eqn can be applied to.

- 1) Steady State / Unsteady State
- 2) Compressible flow / Incompressible flow
- 3) 1-D / 2-D / 3-D flow

2) Navier Stokes eqn / Momentum Balance eqn

$$\underbrace{\frac{\partial (\rho \vec{u})}{\partial t}}_{\text{unsteady state term}} + \underbrace{\nabla (\rho \vec{u} \cdot \vec{u})}_{\text{convection term}} = \underbrace{-\nabla \cdot \vec{p}}_{\text{diffusion term}} + \underbrace{\nabla (\mu \cdot \nabla \vec{u})}_{\text{diffusion term}} + \underbrace{\rho \vec{g}}_{\text{body force}}$$



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Name Sumeet Pandeshi

Roll No.: 19CH034

Supervisor's Signature

Subject PMS

Division: B.E. Chemical

Examination Test-1

Day & Date: Thursday 9/3/23

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | | | | | | | | | | | 11/15 |

Examiner Signature

17

→ a) Modeling & Simulation

Expressing a process in terms of mathematical equations to achieve desired output of the actual real life process is called as modeling.

Types of Model (i) linear & non linear model

(ii) Steady & unsteady models (iii) Lumped parameter & distributed parameter model.

(iv) State space model & transform domain models.

Simulation - testing of mathematical models / equations using a computer program or software or by analytics method is called simulation.

b) Lumped parameter models:

Lumped parameter representation means that, spatial variation are ignored & the various properties and the state of system can be considered homogeneous throughout the entire system.

Eg. Consider a perfectly insulated stirred tank where a hot liq stream at 50°C is mixed with a cold liq stream at 10°C . The

well mixed assumption means that the fluid temp in tank is uniform & equal to the exit temp since the temp does not vary with position.

c) Distributed Parameter System.

A distributed parameter system takes into account detailed variation in behaviour from point to point throughout the system. All systems are of course distributed as there are some of HEX & is heated by energy transferred from condensing steam stream. This is distributed parameter sys as the temp of water is changing with time & position.

a) State Space model.

State space models are models that use state variation to describe a system by a set of 1st order differential equations rather than by one or more n^{th} order differential eqn. If the set of 1st order differential equation is linear in the state & input variables, the model is referred to as a linear space state model.

2) Degree of freedom

Degree of freedom is defined as each of a number of independently variable factors affecting the range of states in which a system may exist, in particular any of the direction in which independent can occur.

3.

→ Process → Physical process.

- By Applying law of Conservation of momentum.

Input - Output + Generation -

$$\text{Generation} = \rho \frac{d\vec{u}}{dt}$$

$$\Rightarrow \text{Input} = \text{Output}$$

- Assumption 1) 1-D flow

2) Steady state flow

3) Physical properties const

4) Incompressible & Isothermal

$$u_x = f(y), \quad u_y = u_z = 0$$

- Model Derivation

$$\text{Rate of momentum in} = (\phi_{xx}|_{x=0}) (\Delta y w) + (\phi_{yx}|_y) (L w)$$

$$\text{Rate of momentum out} = (\phi_{xx}|_{x=L}) (\Delta y w) + (\phi_{yx}|_{y=L}) (L w)$$

By law of conservation of momentum.

$$\therefore (\text{Rate of momentum in}) - (\text{Rate of momentum out}) = 0.$$

$$(\rho y w) (\phi_{xx}|_{x=0}) - \Delta y \phi_{xx}|_{x=L} - (\phi_{yx}|_y) (L w) - (L w) \phi_{yx}|_{y=L}$$

$\Rightarrow 0$

Dividing by $\Delta y w L$ & taking limits $\Delta y \rightarrow 0$

$$\frac{d}{dy} (\phi_{yx}) = \phi_{xx}|_{x=0} - \phi_{xx}|_{x=L}$$



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Date: - 06.10.2022

NOTICE

SE Civil
Academic Year 2022-23

SE un
Time

Unit Test No. 1 Time Table

| Sr. No. | Subject | Date | Time |
|---------|-----------------------------|------------|--------------------|
| 1 | Building Tech. & Arch. Plan | 10.10.2022 | 8.30 am to 9.45 am |
| 2 | Mechanics of Structure | 11.10.2022 | 8.30 am to 9.45 am |
| 3 | Fluid Mechanics | 12.10.2022 | 8.30 am to 9.45 am |
| 4 | Engineering Mathematics III | 13.10.2022 | 8.30 am to 9.45 am |
| 5 | Engineering Geology | 14.10.2022 | 8.30 am to 9.45 am |

Kashid

Ms. K D Kashid
Deptt. Exam Coordinator

Dr. P B Nangare

Dr. P B Nangare
Head of Department

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Date: - 18.08.2022

NOTICE

Unit test 1
Time table

**TE & BE Civil
Academic Year 2022-23**

**Unit Test No. 1
Time Table**

| Sr. No. | Class | Subject | Date | Time |
|-----------------|----------|---|------------|--------------------|
| TE Civil | | | | |
| 1 | TE Civil | Hydrology and Water Resources Engineering | 22.08.2022 | 8.30 am to 9.45 am |
| 2 | TE Civil | Water Supply Engineering | 23.08.2022 | 8.30 am to 9.45 am |
| 3 | TE Civil | Engineering Economics and Financial Mgmt | 24.08.2022 | 8.30 am to 9.45 am |
| 4 | TE Civil | Design of Steel Structures | 25.08.2022 | 8.30 am to 9.45 am |
| 5 | TE Civil | Construction Management (Elec. I) | 26.08.2022 | 8.30 am to 9.45 am |
| BE Civil | | | | |
| 1 | BE Civil | Foundation Engineering | 22.08.2022 | 8.30 am to 9.45 am |
| 2 | BE Civil | Operation Research (Elec. III) | 23.08.2022 | 8.30 am to 9.45 am |
| 3 | BE Civil | Coastal Engineering (Elec. III) | 23.08.2022 | 8.30 am to 9.45 am |
| 4 | BE Civil | SACM (Elec. IV) | 24.08.2022 | 8.30 am to 9.45 am |
| 5 | BE Civil | Air Pollution and Control (Elec. IV) | 24.08.2022 | 8.30 am to 9.45 am |
| 6 | BE Civil | Transportation Engineering | 25.08.2022 | 8.30 am to 9.45 am |

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Date: - 02.12.2022

NOTICE

SE Civil
Academic Year 2022-23

Unit Test No. 2
Time Table

| Sr. No. | Subject | Date | Time |
|---------|-----------------------------|------------|--------------------|
| 1 | Building Tech. & Arch. Plan | 05.12.2022 | 8.30 am to 9.45 am |
| 2 | Mechanics of Structure | 06.12.2022 | 8.30 am to 9.45 am |
| 3 | Fluid Mechanics | 07.12.2022 | 8.30 am to 9.45 am |
| 4 | Engineering Mathematics III | 08.12.2022 | 8.30 am to 9.45 am |
| 5 | Engineering Geology | 09.12.2022 | 8.30 am to 9.45 am |

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Date: 14.10.2022

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TE & BE Civil
Academic Year 2022-23

Unit Test No. 2 Time Table

| Sr. No. | Class | Subject | Date | Time |
|-----------------|----------|---|------------|--------------------|
| TE Civil | | | | |
| 1 | TE Civil | Hydrology and Water Resources Engineering | 17.10.2022 | 8.30 am to 9.45 am |
| 2 | TE Civil | Water Supply Engineering | 18.10.2022 | 8.30 am to 9.45 am |
| 3 | TE Civil | Engineering Economics and Financial Mgmt | 19.10.2022 | 8.30 am to 9.45 am |
| 4 | TE Civil | Design of Steel Structures | 20.10.2022 | 8.30 am to 9.45 am |
| 5 | TE Civil | Construction Management (Elec. I) | 21.10.2022 | 8.30 am to 9.45 am |
| BE Civil | | | | |
| 1 | BE Civil | Foundation Engineering | 17.10.2022 | 8.30 am to 9.45 am |
| 2 | BE Civil | Operation Research (Elec. III) | 18.10.2022 | 8.30 am to 9.45 am |
| 3 | BE Civil | Costal Engineering (Elec. III) | 18.10.2022 | 8.30 am to 9.45 am |
| 4 | BE Civil | SACM (Elec. IV) | 19.10.2022 | 8.30 am to 9.45 am |
| 5 | BE Civil | Air Pollution and Control (Elec. IV) | 19.10.2022 | 8.30 am to 9.45 am |
| 6 | BE Civil | Transportation Engineering | 20.10.2022 | 8.30 am to 9.45 am |

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Date: - 21.03.2023

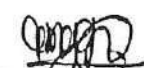
NOTICE

SE Civil
Academic Year 2022-23

Unit Test No. 1 Time Table

| Sr. No | Class | Subject | Date | Time |
|--------|----------|--------------------------|------------|--------------------|
| 1 | SE Civil | Geotechnical Engineering | 27.03.2023 | 8.30 am to 9.30 am |
| 2 | SE Civil | Surveying | 28.03.2023 | 8.30 am to 9.30 am |
| 3 | SE Civil | Concrete Technology | 29.03.2023 | 8.30 am to 9.30 am |
| 4 | SE Civil | Structural Analysis | 30.03.2023 | 8.30 am to 9.30 am |
| 5 | SE Civil | Project Management | 31.03.2023 | 8.30 am to 9.30 am |


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Date: - 03.03.2023

NOTICE

TE & BE Civil Academic Year 2022-23

Unit Test No. 1 Time Table

| Sr. No. | Class | Subject | Date | Time |
|-----------------|----------|--|------------|--------------------|
| TE Civil | | | | |
| 1 | TE Civil | Waste Water Engineering | 06.03.2023 | 8.30 am to 9.30 am |
| 2 | TE Civil | Remote Sensing and GIS | 07.03.2023 | 8.30 am to 9.30 am |
| 3 | TE Civil | Architecture and Town Planning (Elec. II) | 08.03.2023 | 8.30 am to 9.30 am |
| 4 | TE Civil | Solid Waste Management (Elec. II) | 08.03.2023 | 8.30 am to 9.30 am |
| 5 | TE Civil | Design of RC Structures | 09.03.2023 | 8.30 am to 9.30 am |
| BE Civil | | | | |
| 1 | BE Civil | Dams and Hydraulics Structures | 06.03.2023 | 8.30 am to 9.30 am |
| 2 | BE Civil | Quantity Surveying, Contracts and Tenders | 07.03.2023 | 8.30 am to 9.30 am |
| 3 | BE Civil | Hydropower Engineering (Elec. V) | 08.03.2023 | 8.30 am to 9.30 am |
| 4 | BE Civil | Green Structures and Smart Cities (Elec. VI) | 09.03.2023 | 8.30 am to 9.30 am |

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Deptt. Exam Coordinator

Dr. P. K. Nangare

Dr. P. K. Nangare
Head of Department

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Date: -13.05.2023


NOTICE


SE Civil
Academic Year 2022-23


Unit Test No. 2
Time Table

| Sr. No. | Class | Subject | Date | Time |
|---------|----------|--------------------------|------------|--------------------|
| 1 | SE Civil | Geotechnical Engineering | 15.05.2023 | 3.30 pm to 4.30 pm |
| 2 | SE Civil | Surveying | 17.05.2023 | 3.30 pm to 4.30 pm |
| 3 | SE Civil | Concrete Technology | 18.05.2023 | 3.30 pm to 4.30 pm |
| 4 | SE Civil | Structural Analysis | 19.05.2023 | 3.30 pm to 4.30 pm |
| 5 | SE Civil | Project Management | 22.05.2023 | 3.30 pm to 4.30 pm |

Note: All students are informed to report unit test 2 paper at 3.00pm sharp.


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Deptt. Exam Coordinator


Dr. P B Nangare
Head of Department


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Date: -21.04.2023

NOTICE

TE & BE Civil
Academic Year 2022-23

Unit Test No. 2 Time Table

| Sr. No. | Class | Subject | Date | Time |
|----------|----------|---|------------|--------------------|
| TE Civil | | | | |
| 1 | TE Civil | Waste Water Engineering | 24.04.2023 | 3.30 pm to 4.30 pm |
| 2 | TE Civil | Remote Sensing and GIS | 25.04.2023 | 3.30 pm to 4.30 pm |
| 3 | TE Civil | Architecture and Town Planning/ Solid Waste Management (Elec. II) | 26.04.2023 | 3.30 pm to 4.30 pm |
| 4 | TE Civil | Design of RC Structures | 27.04.2023 | 3.30 pm to 4.30 pm |
| BE Civil | | | | |
| 1 | BE Civil | Dams and Hydraulics Structures | 24.04.2023 | 3.30 pm to 4.30 pm |
| 2 | BE Civil | Quantity Surveying, Contracts and Tenders | 25.04.2023 | 3.30 pm to 4.30 pm |
| 3 | BE Civil | Hydropower Engineering (Elec. V) | 26.04.2023 | 3.30 pm to 4.30 pm |
| 4 | BE Civil | Green Structures and Smart Cities (Elec. VI) | 27.04.2023 | 3.30 pm to 4.30 pm |

Note: All students are informed to report unit test 2 paper at 3.00 pm sharp.

Ms. K D Kashid

Deptt. Exam Coordinator

Dr. P B Nangare

Head of Department

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Supervisor's Signature

Name Dorayani S. Gueap Roll No. 20CV041

Subject Design of Reinforced Concrete Division: TE Civil A

Examination Unit Test - 2 Day & Date: 27/04/22, Thursday

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|----|---|----|---|---|---|---|---|----|-------------|
| Marks | | 13 | | 11 | | | | | | | 24 |

Examiner Signature [Signature]

230 X 450

Q.2)

Step 1: Calculate Max^m ultimate shear.

$$V_{u\max} = \frac{W_u L}{2} = \frac{50 \times 5.3}{2} = \frac{132.5}{2} = 66.25 \text{ KN}$$

Step 2: Compute design shear V_{ud}

$$d = 450 - 20 - \frac{16}{2} = 422$$

$$V_{ud} = V_{u\max} - W_u \left(\frac{b_c}{2} + d \right)$$

$$= 132.5 - 50 \left(\frac{0.3}{2} + 0.422 \right)$$

$$= 103.8 \text{ KN}$$

Step 3: Max^m allowable ultimate shear ($V_{uc\max}$)

$$V_{uc\max} = \tau_{c\max} \times b \times d$$

$$= 2.8 \times 230 \times 422$$

$$= 271.76 \text{ KN} > V_{ud} = 103.8 \text{ KN}$$

Step 4: Shear resisted by concrete.

$$V_{uc} = \tau_{uc} b d$$

$$P_t = \frac{100 A_{st}}{b d} ; A_{st} = \frac{2 \times \pi \times (16)^2}{4} = 402.12$$

$$= \frac{100 \times 402.12}{230 \times 422} = 0.414 \%$$

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$$V_{uc} = T_{uc} b d$$

Now, $P_t = 0.414\%$, M20 grade

Refer Table 19, $T_{uc} = 0.44 \text{ N/mm}^2$

$$V_{uc} = 0.44 \times 230 \times 422 = \underline{42.71 \text{ kN}}$$

Step 5: $V_{u\text{min}}$

$$\begin{aligned} V_{u\text{min}} &= 0.4 b d \\ &= 0.4 \times 230 \times 422 \\ &= \underline{38.82 \text{ kN}} \end{aligned}$$

Step 6: $V_{ur\text{min}}$

$$\begin{aligned} V_{ur\text{min}} &= V_{uc} + V_{u\text{min}} \\ &= 42.71 + 38.82 \\ &= \underline{81.53 \text{ kN}} < V_{ud} = 103.8 \text{ kN} \end{aligned}$$

Step 7: Design shear reinforcement

$$\begin{aligned} V_{us} &= V_{ud} - V_{uc} \\ &= 103.8 - 42.71 \\ &= 61.09 \text{ kN} \end{aligned}$$

Use 2 legged # 8 mm stirrups

$$\begin{aligned} S &= \frac{0.87 f_y A_{sv} d}{V_{us}} & A_{sv} &= \frac{2 \times \pi \times (8)^2}{4} \\ &= \frac{0.87 \times 415 \times 100.53 \times 422}{61.09 \times 10^3} & &= 100.53 \text{ mm}^2 \\ &= 250.729 \end{aligned}$$

$$S = 250 \text{ mm c/c}$$

Provide 8 mm stirrups \rightarrow 2 legged
at 250 mm c/c.

Step 8: Zones: Zone 1:

$$i) L_{s1} = \frac{V_{umax} - V_{umin}}{W_u} = \frac{132.5 - 81.53}{50} = 1.019 \text{ m} \\ = \underline{1019 \text{ mm}}$$

Provide 8 mm # stirrups @ 250 mm c/c.

$$\therefore \text{Provide 4 stirrups as } \text{No. of stirrups} = \frac{1019}{250} = 4$$

$$\therefore \text{Provided } L_{s1} = \frac{300}{2} + 50 + 3 \times 250 = \underline{950 \text{ mm}}$$

ii) Zone 2:

$$L_{s2} = \frac{L}{2} - \frac{L_{s1}}{2} - L_{s3} =$$

$$L_{s3} = \frac{0.8 V_{uc}}{W_u} = \frac{0.5 \times 42.71}{50} = 0.427 = \underline{427 \text{ mm}}$$

$$\therefore L_{s2} = \frac{5300}{2} - 950 - 427 = \underline{1273 \text{ mm}}$$

Provide 8 mm # stirrups.

$$S = \frac{0.87 f_y A_{sv}}{0.46} = \frac{0.87 \times 415 \times 100.53}{0.4 \times 230} = 394.52 \text{ mm}$$

Provide 8 mm # @ 350 mm c/c.

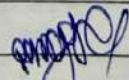
$$\text{No. of stirrups} = \frac{1273}{350} = 3.63 = 4 \text{ No.s.}$$

$$L_{s2} \text{ provided} = 3 \times 350 = \underline{1050 \text{ mm}}$$

iii) Zone 3:

$$L_{s3} = \frac{L}{2} - \frac{L_{s1}}{2} - \frac{L_{s2}}{2} = \frac{5300}{2} - 950 - 1050 \\ = \underline{650 \text{ mm}}$$

Provide nominal shear 6 mm ϕ @ 300 mm c/c.


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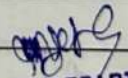
(b) Formation of plastic hinges :

- When the load is gradually increased beyond the service load, the moment at critical section reaches the plastic moment and plastic hinge is formed.
- If the load is further increased beyond the resisting moment capacity, the plastic hinges start to rotate at the section.
- The section then transfers load to other section, if the applied loads are further increased. This phenomenon is called redistribution of moments.

* Purpose of redistribution of moment

- It reduces the support moment and hence absolute max. design moment. Therefore, reduces either the cross section or the area of steel at support and thus avoids congestion of steel at support.

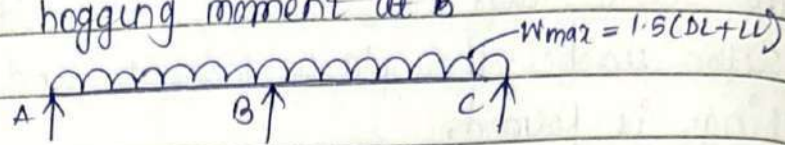
- RC beam cast monolithically with the slab normally acts as flange beam at midspan and rectangular beam at support. So, therefore, reduction of support moment and increasing the span moment is advantageous for better utilization of higher moment of resistance of flange section at midspan.


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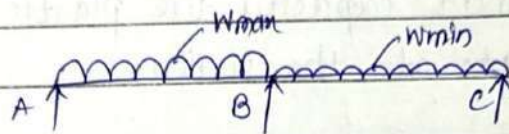
Loading Case :

1) Load case for 2 span continuous beam

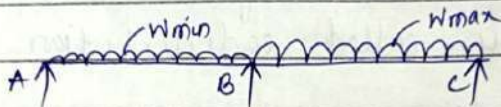
Case I: Max^m hogging moment at B



Case II: Max^m sagging moment in AB

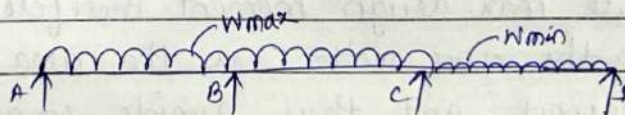


Case III: Max^m sagging moment in BC

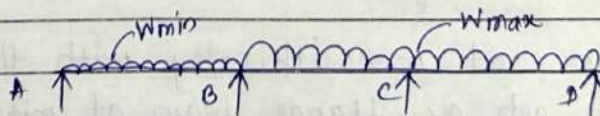


2) Load case for 3 span continuous beam :

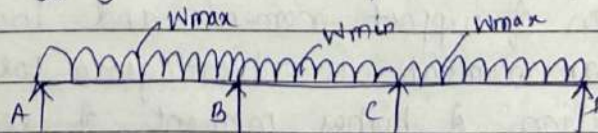
Case I: Max^m Hogging moment at B



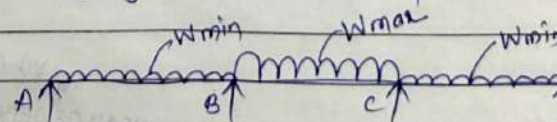
Case II: Max^m Hogging moment at C



Case III: Max^m Sagging moment in span AB and CD



Case IV: Max^m sagging moment in span BC



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Q6) i) Design parameter

$$k_{umax} = 0.48$$

$$R_{umax} = 0.36 f_{ck} k_{umax} (1 - 0.42 k_{umax})$$
$$= 0.36 \times 20 \times 0.48 (1 - 0.42 \times 0.48)$$

$$R_{umax} = 2.76 \text{ N/mm}^2$$

$$P_{tmax} = \frac{0.36 f_{ck} k_{umax}}{0.87 f_y}$$

$$= \frac{0.36 \times 20 \times 0.48}{0.87 \times 415}$$

$$P_{tmax} = 0.0095$$

2) Assume 230 mm width of beam

$$d = \sqrt{\frac{M_u}{R_{umax} \times b}}$$

$$d = \sqrt{\frac{62 \times 10^6}{2.76 \times 230}} = 312.52 \text{ mm}$$

$$d \approx 315 \text{ mm}$$

$$3) A_{st} = P_{tmax} \times b \times d$$

$$= 0.0095 \times 230 \times 315$$

$$= 688.27 \text{ mm}^2 \approx 690 \text{ mm}^2$$

Provide 20 mm #

$$\text{No. of bars} = \frac{690}{\frac{\pi}{4} \times (20)^2}$$

$$= 2.19$$

$$= 2.19$$

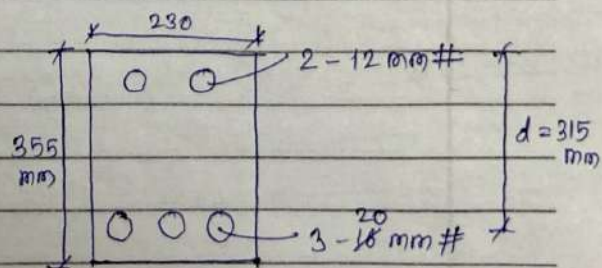
Provide 3-20 mm #

$$4) D = d' + d$$

$$d' = 40 \text{ mm} \dots \text{Assume}$$

$$D = 40 + 315$$

$$D = 355 \text{ mm}$$



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DEPARTMENT OF CIVIL ENGINEERING
UNIT TEST- 2 A.Y. 2022-23 TERM-II

Class: TE (Civil Engineering) Semester: VI
Subject: Design of Reinforced Concrete Structures Pattern: TE (2019 Course)
Maximum Marks: 30 Duration: 1 hour
Time: 3.30 p.m. to 4.30 p.m. Date: 27/04/2023

Instruction for the students:

- 1) Answer Q1 or Q2; Q3 or Q4.
- 2) Figures to the right indicates full marks.
- 3) Use of IS 456-2000 is allowed.
- 4) If necessary, assume suitable data and indicate clearly.
- 5) Mere reproduction from is code as answer, will not be given full credit.

Course Outcome Statements:

CO3: Design & detailing of rectangular one way and two-way slab with different boundary conditions
CO4: Design & detailing of dog legged and open well staircase

Taxonomy Levels:

I-Remember, II-Understand, III-Apply, IV-Analyse, V-Evaluate, VI- Create

| Q No. | Question | Marks | Taxonomy Level |
|-------|---|-------|----------------|
| Q1 a) | Design I and II flights of a dog legged staircase as shown in Fig. 1 for the following data: 25 i) Floor to floor height = 3.3 m; ii) Rise = 150 mm; Tread = 300 mm; iii) Width of landing = 1.25 m; iv) Material M 20, Fe 500. Show detailed load calculations and draw BMD for both flights and reinforcement details in sectional elevation for both flights. At ground floor, plinth beam is provided below 1st step. Assume suitable data if required. | 15 | I & VI |

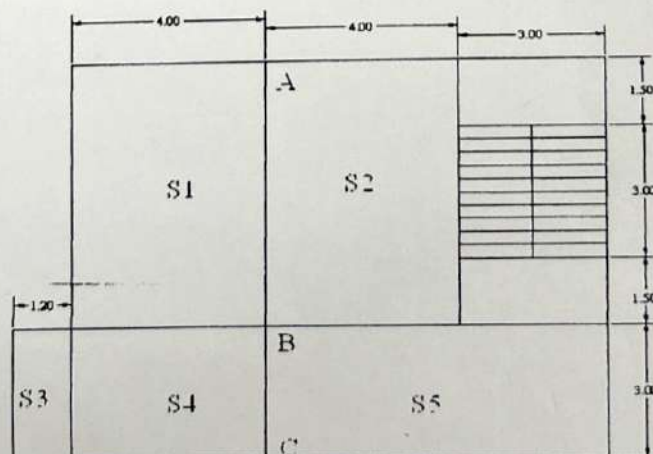


Fig 1

PRM
GCC

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COLLEGE OF ENGINEERING, PUNE
Academic Year – 2022-23, Semester II
Civil Engineering Department

Unit Test II

Class: T.E. (A) Civil -2019 Course Subject: D.R.C.S. Date :-
Class Room No. : 441

| SN | Roll No. | Name of Student | Marks | Sign |
|----|----------|-------------------------------|-------|------------|
| 1 | 18CV027 | Dhangare Jay Eknath | 14 | Jay |
| 2 | 19CV086 | PHADATARE KIRAN SANJAY | 15 | Kiran |
| 3 | 20CV001 | ABHISHEK AVINASH WAGHMARE | | AB |
| 4 | 20CV002 | ADHAV DEWANG SUNIL | 15 | Dewang |
| 5 | 20CV003 | ADIL AHMAD DAR | 16 | Adil |
| 6 | 20CV004 | ARBAZ MOHAMMED ALTAZ MAPKAR | 14 | Arbaz |
| 7 | 20CV005 | AUTY VIRAJ MALURAJ | 17 | Auty |
| 8 | 20CV006 | BACHATE HARSHVARDHAN RAJENDRA | AB | AB |
| 9 | 20CV007 | BACHHAV PRASAD NIMBA | AB | AB |
| 10 | 20CV008 | BARVE AJINKYA MOSHE | 15 | Barve |
| 11 | 20CV009 | BASETWAR VAIBHAV ARJUN | 16 | Basetwar |
| 12 | 20CV010 | BELDAR SANJOT NITIN | 15 | Beldar |
| 13 | 20CV011 | BHADANE HIMANSHU DILIP | 10 | Bhadane |
| 14 | 20CV012 | BHALEGHARE PRATHAM PRADEEP | 15 | Bhaleghare |
| 15 | 20CV013 | BHAMARE MANAS NANAJI | 16 | Bhamare |
| 16 | 20CV014 | BHAREKAR ROHAN MARUTI | 14 | Bharekar |
| 17 | 20CV015 | BHAWARI N'LANJAN KANTARAM | 15 | Bhawari |
| 18 | 20CV016 | BHOSALE NIKITA NAMDEO | 17 | Bhosale |
| 19 | 20CV017 | CHAUDHARI SOHAM DINESH | 18 | Chaudhari |
| 20 | 20CV018 | CHAVAN ABHISHEK AJAY | 15 | Chavan |
| 21 | 20CV019 | CHAVAN ROHIT RAVINDRA | 16 | Chavan |
| 22 | 20CV020 | CHAVAN SUYASH VIJAYKUMAR | 13 | Chavan |
| 23 | 20CV021 | CHAWADA ARYAN DHANANJAY | 12 | Chawada |
| 24 | 20CV022 | CHIRAG PRADIP MUNDADA | AB | AB |
| 25 | 20CV023 | CHITTE CHINMAY RAJESH | 12 | Chitte |
| 26 | 20CV024 | CHOUGULE KAUSTUBH RAJESH | AB | AB |
| 27 | 20CV025 | DANGADE KUNAL BABASAHEB | 13 | Dangade |
| 28 | 20CV027 | DAREKAR SUYASH BALASAHEB | 14 | Darekar |
| 29 | 20CV028 | DHANAWADE SHUBHAM RAVINDRA | 12 | Dhanawade |
| 30 | 20CV029 | DHUMAL PRAJWAL SUNIL | 14 | Dhumal |
| 31 | 20CV030 | DIGHE HARSHAL SURESH | AB | AB |
| 32 | 20CV031 | DIVATE GIRISH MOHAN | AB | AB |
| 33 | 20CV032 | DOKE TUSHAR RAJENDRA | 13 | Doke |
| 34 | 20CV033 | GADE KUNAL NANDU | 14 | Gade |
| 35 | 20CV034 | GARGAM KOMAL SHANKAR | 12 | Gargam |
| 36 | 20CV035 | GAWADE MAYUR D | 13 | Gawade |
| 37 | 20CV036 | GAWALI YASH RAJENDRA | 14 | Gawali |
| 38 | 20CV037 | GHUGE PRAVIN SHIVAJI | AB | AB |
| 39 | 20CV038 | GODBHARLE VAISHNAVI D | 13 | Godharle |
| 40 | 20CV040 | GUNJAL VEDANT MILIND | 12 | Gunjal |

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| | | | | |
|----|---------|-------------------------------|----|-------------------|
| 41 | 20CV041 | GURAP DEVAYANI SHASHIKANT | 29 | <i>Derayani</i> |
| 42 | 20CV042 | HIRE MANDAR RAVINDRA | 20 | <i>archur</i> |
| 43 | 20CV043 | INGALE ASHISHKUMAR JAYAWANT | AB | <i>AB</i> |
| 44 | 20CV044 | INGALE PRASHANT KALURAM | 20 | <i>Prashant</i> |
| 45 | 20CV046 | JADHAV SANKET POPAT | AB | <i>AB</i> |
| 46 | 20CV047 | JADHAV TEJAS VISHWAS | 19 | <i>Tejhas</i> |
| 47 | 20CV048 | JAGTAP AVISHKAR SATISH | AB | <i>AB</i> |
| 48 | 20CV049 | JAWALKAR MANTHAN MAHENDRA | 19 | <i>Manth</i> |
| 49 | 20CV050 | JAYBHAYE SAKSHI SURESH | AB | <i>AB</i> |
| 50 | 20CV051 | JOSHI SOHAM SHRIRAM | AB | <i>AB</i> |
| 51 | 20CV052 | KALA SAMYAK SHONIT | AB | <i>AB</i> |
| 52 | 20CV053 | KALE DEVASHISH PRADIP | AB | <i>AB</i> |
| 53 | 20CV054 | KALE PRATIK BALU | 20 | <i>Pratik</i> |
| 54 | 20CV055 | KALE YUVRAJ DATTATRAY | 18 | <i>Yuvraj</i> |
| 55 | 20CV056 | KAMTHE SAHIL KALURAM | 17 | <i>Sahil</i> |
| 56 | 20CV057 | KAPRE PARTH PRASAD | AB | <i>AB</i> |
| 57 | 20CV058 | KARLEKAR DHANSHREE SANJEEV | 15 | <i>Dhanashree</i> |
| 58 | 20CV059 | KAUSHAL MAHESH SHINDE | 16 | <i>Maahesh</i> |
| 59 | 20CV060 | KESEKAR SHAMBHURAJ SURYAKANT | 17 | <i>Shambhuj</i> |
| 60 | 20CV061 | KHAIRNAR VIRAJ BALU | 16 | <i>Viraj</i> |
| 61 | 20CV062 | KHANOLKAR YASHWANT PARASHURAM | 15 | <i>Yashwant</i> |
| 62 | 20CV063 | KHARE KALPESH SHANTARAM | 15 | <i>Kalpe</i> |
| 63 | 20CV064 | KOLATE TRUPTI ARVIND | 18 | <i>Trupti</i> |
| 64 | 21CV301 | AKHADE SAKSHI MAHADEV | 17 | <i>Sakshi</i> |
| 65 | 21CV302 | BANKAR GAURAV SHRIKANT | 16 | <i>Gaurav</i> |
| 66 | 21CV303 | BANKAR SREYAS SAHEBRAO | 18 | <i>Sreyas</i> |
| 67 | 21CV304 | BHALSHANKAR SNEHA RAVI | 12 | <i>Sneha</i> |
| 68 | 21CV305 | BHASKAR NIYATI NARESH | 13 | <i>Niyati</i> |
| 69 | 21CV306 | BHATE TEJAS SACHIN | 19 | <i>Tejasa</i> |
| 70 | 21CV307 | BHOSALE SHRAWANI BHARAT | 12 | <i>Shrawani</i> |
| 71 | 21CV308 | BIRAJDAR HARIOM SHIVDARSHAN | 13 | <i>Hariom</i> |
| 72 | 21CV309 | CHAFLE SAHIL SHEMDEO | 07 | <i>Sahil</i> |
| 73 | 21CV310 | CHAVAN ADITYA VIKRAM | 20 | <i>Aditya</i> |
| 74 | 21CV311 | CHAVAN GAURI BHARAT | 16 | <i>Gauri</i> |
| 75 | 21CV312 | DESAI BRAVIMRAJ BAJIRAO | 17 | <i>Bravimraj</i> |
| 76 | 21CV313 | GAYKE SAURABH SHYAM | 18 | <i>Saurabh</i> |
| 77 | 21CV314 | GHOM AWANTIKA SURYAKANT | 19 | <i>Awantika</i> |
| 78 | 21CV315 | GIRASE NIPUL RAVINDRASINGH | 17 | <i>N.R.G</i> |

Total Students : 78

Total Present : 61

Total Absent : 17

P. R. Modak
Name & Sign of Supervisor

Sr Supervisor

[Signature]
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KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Devayani S. Guleap

Roll No.: 20CV041

Structures

Subject Design of Reinforced Concrete

Division: A

Examination Unit Test - I

Day & Date: _____

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | | | | | | | | | | | 18 |

Examiner Signature

Ans.

The section which is reinforced with longitudinal reinforcement in both tension and compression zone is known as doubly reinforced section.

Under following circumstances doubly reinforced section are needed:

1) Sectional dimension are restricted due to requirement of head room.

2) Appearance and strength given in singly reinforced section is inadequate.

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b)
Ans -

Given :

$$b = 300 \text{ mm}$$

$$d = 400 \text{ mm}$$

$$f_{ck} = 20$$

$$f_y = 415$$

$$\text{clear cover} = 25 \text{ mm}$$

Soln :

$$\begin{aligned} i) \quad \epsilon_{sc} &= 0.0035 \left(1 - \frac{d_c}{x_{u\max}} \right) \\ &= 0.0035 \left(1 - \frac{d_c}{x_{u\max}} \right) \\ &= 0.0035 \left(1 - \frac{25}{192} \right) \end{aligned}$$

$$\begin{aligned} \epsilon_{sc} &= 3.04 \times 10^{-3} \\ &= 0.003 \end{aligned}$$

$$0.00275 \quad 351.84$$

$$0.003 \quad 352$$


$$0.00380 \quad 360.9$$

$$f_{sc} = 352$$

$$x_u = \frac{0.87 f_y A_{st}}{0.36 f_{ck} b} = \frac{f_{sc} A_{sc}}{0.36 f_{ck} b}$$

$$= \frac{0.87 \times 415 \times 1256.63}{0.36 \times 20 \times 300} = \frac{352 \times 226.19}{0.36 \times 20 \times 300}$$

$$x_u = 173.18$$


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$$A_{st} = \frac{\pi}{4} \times 4 \times (20)^2$$

$$= 1256.63$$

$$M_{ur} = 0.36 f_{ck} b x_u (d - 0.42 x_u) + f_{sc} A_{sc} (d - d_c)$$

$$= 0.36 \times 20 \times 300 \times 173.18 (375 - 0.42 \times 173.18) + 352 \times 226.19 (375 - 25)$$

$$M_{ur} = 140.93 \text{ kN.m}$$

3)

a)

→ Function of Distribution reinforcement

→ Distribution reinforcement is given to deal with shrinkage stress and temperature effects. After pouring of cement at the time of curing concrete will contract since the water in concrete gets used for hydration.

→ Distribution steel is provided in transverse direction to hold the main steel in position and also take care of shrinkage and temp. stresses.

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Q.3b)

Ans - Given :

$$\text{Clear span} = 3.8 \text{ m}$$

$$LL = 3 \text{ kN/m}^2$$

$$FF = 1 \text{ kN/m}^2$$

$$\text{Wall thickness} = 230 \text{ mm (bs)}$$

$$f_{ck} = 20$$

$$f_y = 415$$

Soln

$$1) \quad l_y \text{ deeq} = \frac{\text{Span}}{20MF}$$

$$= 3800$$

$$20 \times 1.5$$

$$= 126.67$$

$$\approx 130 \text{ mm}$$

$$D = d + \text{clear sp cover}$$

$$= 130 + 20$$

$$= 150 \text{ mm}$$

$$2) \quad l_e = L + t \quad \text{or} \quad = L + d$$

$$= 3.8 + 0.23$$

$$= 3.8 + 0.13$$

$$= 4.03$$

$$= 3.93$$

3) Load Calculation

$$DL = 250 = 25 \times 0.15 = 3.75 \text{ kN/m}$$

$$\text{Total Load} = 3.75 + 3 + 1$$

$$= 7.75$$

$$W_u = 1.5 \times 7.75$$

$$= 11.625 \text{ kN/m}$$

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$$M_u = \frac{W_u (l_{eff})^2}{8}$$

$$= \frac{11.625 \times (3.93)^2}{8}$$

$$M_u = 22.44 \times 10^6 \text{ N}\cdot\text{mm}$$

$$5) M_u = M_{u,lim}$$

$$22.44 \times 10^6 = 0.138 \times 20 \times 1000 \times d^2$$

$$d = 90.16 \text{ mm} < 130 \text{ mm}$$

$$d_{req} < d_{provided}$$

$$7) A_{st} = \frac{0.5 f_{ck}}{f_y} \left[1 - \sqrt{1 - \frac{4.6 M_u}{f_{ck} b d^2}} \right] b d$$

$$= \frac{0.5 \times 20}{415} \left[1 - \sqrt{1 - \frac{4.6 \times 22.44 \times 10^6}{20 \times 1000 \times (130)^2}} \right] 1000 \times 130$$

$$A_{st} = 521.78$$

$$A_{stmin} = 0.12 \times 1000 \times 150 / 100$$

$$= 180 \text{ mm}^2$$

$$A_{st} > A_{stmin}$$

7) Main reinforcement

$$S = \frac{1000 \times \pi/4 \times (10)^2}{521.78}$$

$$S = 150.52$$

$$\approx 150 \text{ mm}$$

$$S = 3d \text{ or } 300 \text{ mm} \dots \text{whichever is less}$$

Provide 10 mm # bar at 150 mm c/c.

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8) Distribution steel

$$s = \frac{1000 \times 50.27}{180}$$

$$= 279.28$$

$$= 280 \text{ mm c/c}$$

$$s = 5d \text{ or } 450 \text{ mm} \dots \text{whichever is less.}$$

Provide distribution steel 8 mm ϕ bar at 280 mm

$$9) A_{st} \text{ prov} = \frac{1000 \times \pi/4 \times (12)^2}{1.50}$$

$$= 436.33 \text{ mm}^2$$

$$F_s = 0.58 f_y \left[\frac{521.78}{436.33} \right]$$

$$f_s = 287.83$$

$$P_{\text{actual}} = \frac{436.33 \times 100}{1000 \times 130}$$

$$= 0.331$$

$$\text{Required depth} = \frac{\text{span}}{20 \text{ MF}}$$

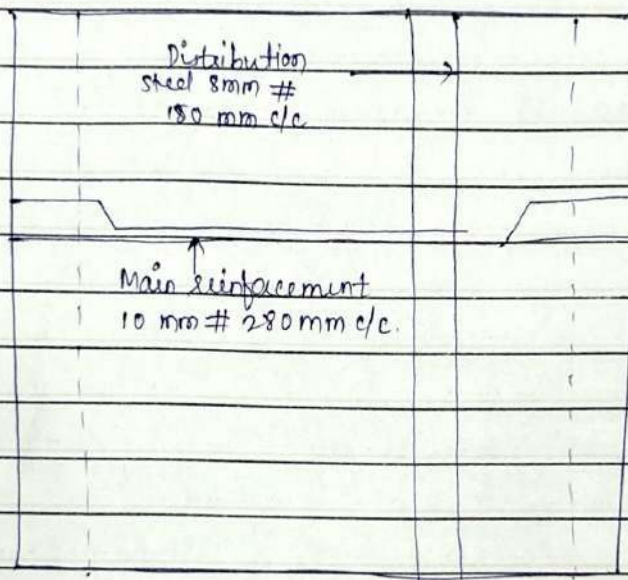
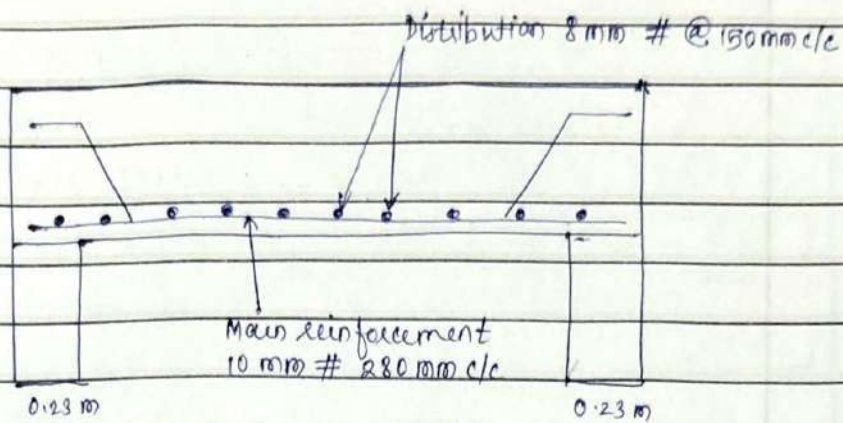
$$= \frac{3800}{20 \times 1.45}$$


$$= 131.03$$

$$\approx 130 \text{ mm}$$

$d_{\text{req}} < d_{\text{prov}}$
Slab is safe in deflection

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DEPARTMENT OF CIVIL ENGINEERING UNIT TEST- 3 A.Y. 2022-23 TERM-II

Class: TE (Civil Engineering)
Subject: Design of Reinforced Concrete Structures
Maximum Marks: 30
Time:

Semester: VI
Pattern: TE (2019 Course)
Duration: 1 hour
Date: 25/05/2023

Instruction for the students:

- 1) Answer Q1 or Q2; Q3 or Q4.
- 2) Figures to the right indicates full marks.
- 3) Use of IS 456-2000 is allowed.
- 4) If necessary, assume suitable data and indicates clearly.
- 5) Mere reproduction from is code as answer, will not be given full credit.

Course Outcome Statements:

CO5: Design & detailing of singly/doubly rectangular/flanged beams for flexure, shear, bond and torsion.

CO6: Design & detailing of short columns subjected to axial load, uni-axial/bi-axial bending and their footings.

Taxonomy Levels:

I-Remember, II-Understand, III-Apply, IV-Analyse, V-Evaluate, VI- Create

| Q No. | Question | Marks | Taxonomy Level |
|-------|---|-------|----------------|
| Q1 a) | Explain different parameters of interaction curves for the design of column | 5 M | II |
| b) | Design the reinforcement in a column of a 400 mm x 400mm, subject to an axial load of 150 kN under service dead load and live loads. The column has an unsupported length of 3.0 m and is restrained in both directions. Use M20 Concrete and Fe 500 steel. | 10 M | VI |
| OR | | | |
| Q2 a) | Explain minimum and maximum percentage of longitudinal reinforcement and how to decide diameter and spacing of lateral ties. | 3 M | II |
| b) | Design a short reinforced concrete column of rectangular section to carry an ultimate load of 500 kN and ultimate moment 80 kN.m acting about an bisecting the depth of the column. Assume the effective length of the column equal to 4.5 m, width of the supported beam is 300 mm. Use M20, Fe 415. Provide equal steel on both tension and compression sides. $L_{eff x} = 4.5$ m and $L_{eff y} = 3.5$ m. | 12 M | VI |
| | | | P.T.O. |

| | | | |
|-------|--|------|----|
| Q3 a) | Design a footing for an axially loaded square column of 500 mm side, transmitting a load of $P_u = 1000 \text{ kN}$ and safe bearing capacity of soil is 300 kN/m^2 . Use M20, Fe415. | 15 M | II |
| | OR | | |
| Q4 a) | Design a square footing for a 400 mm x 400 mm size column, carrying a direct load of 900 kN and subjected to a moment of 80 kN.m. The safe bearing capacity of soil is 150 kN/m^2 . Use M20, Fe415 | 15 M | VI |

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Academic Year – 2022-23, Semester II
Civil Engineering Department

Unit Test III

Date :-

Class: T.E. (A) Civil -2019 Course Subject: *P.R.* Class Room No. : 441

| SN | Roll No. | Name of Student | Marks | Sign |
|----|----------|----------------------------|-------|-----------------|
| 1 | 20CV001 | ABHISHEK AVINASH WAGHMARE | 12 | <i>AB</i> |
| 2 | 20CV002 | ADHAV DEWANG SUNIL | 13 | <i>Dewang A</i> |
| 3 | 21CV301 | AKHADE SAKSHI MAHADEV | 14 | <i>Sakshi</i> |
| 4 | 20CV004 | ARBAZ M ALTAZ MAPKAR | | <i>AB</i> |
| 5 | 20CV005 | AUTY VIRAJ MALURAJ | 12 | <i>Viraj</i> |
| 6 | 20CV006 | BACHATE H RAJENDRA | | <i>AB</i> |
| 7 | 20CV009 | BASETWAR VAIBHAV ARJUN | | <i>AB</i> |
| 8 | 21CV304 | BHALSHANKAR SNEHA RAVI | 12 | <i>Sneha</i> |
| 9 | 20CV013 | BHAMARE MANAS NANAJI | 13 | <i>Manas</i> |
| 10 | 20CV014 | BHAREKAR ROHAN MARUTI | 14 | <i>AB</i> |
| 11 | 21CV305 | BHASKAR NIYATI NARESH | | <i>AB</i> |
| 12 | 21CV306 | BHATE TEJAS SACHIN | 15 | <i>Tejas</i> |
| 13 | 20CV016 | BHOSALE NIKITA NAMDEO | 16 | <i>Nikita</i> |
| 14 | 21CV307 | BHOSALE SHRAWANI BHARAT | 15 | <i>Shrawani</i> |
| 15 | 21CV308 | BIRAJDAR HARIOM S. | 18 | <i>Hariom</i> |
| 16 | 20CV018 | CHAVAN ABHISHEK AJAY | 13 | <i>AB</i> |
| 17 | 21CV310 | CHAVAN ADITYA VIKRAM | 14 | <i>Aditya</i> |
| 18 | 21CV311 | CHAVAN GAURI BHARAT | 15 | <i>Gauri</i> |
| 19 | 20CV019 | CHAVAN ROHIT RAVINDRA | 16 | <i>Rohit</i> |
| 20 | 20CV020 | CHAVAN SUYASH VIJAYKUMAR | 17 | <i>Suyash</i> |
| 21 | 20CV021 | CHAWADA ARYAN DHANANJAY | 10 | <i>Aryan</i> |
| 22 | 20CV022 | CHIRAG PRADIP MUNDADA | | <i>AB</i> |
| 23 | 20CV023 | CHITTE CHINMAY RAJESH | 10 | <i>Chitte</i> |
| 24 | 20CV024 | CHOUGULE KAUSTUBH RAJESH | 10 | <i>Kaustubh</i> |
| 25 | 21CV312 | DESAI BRAVIMRAJ BAJIRAO | | <i>AB</i> |
| 26 | 20CV030 | DIGHE HARSHAL SURESH | | <i>AB</i> |
| 27 | 20CV031 | DIVATE GIRISH MOHAN | 12 | <i>Girish</i> |
| 28 | 20CV032 | DOKE TUSHAR RAJENDRA | 12 | <i>Tushar</i> |
| 29 | 20CV034 | GARGAM KOMAL SHANKAR | 13 | <i>Komal</i> |
| 30 | 20CV035 | GAWADE MAYUR DHANANJAY | 13 | <i>Mayur</i> |
| 31 | 20CV036 | GAWALI YASH RAJENDRA | 1 | <i>AB</i> |
| 32 | 21CV314 | GHOM AWANTIKA SURYAKANT | 13 | <i>Awantika</i> |
| 33 | 20CV037 | GHUGE PRAVIN SHIVAJI | 12 | <i>Praavin</i> |
| 34 | 21CV315 | GIRASE NIPUL RAVINDRASINGH | 12 | <i>Nipul</i> |

Total Students: *34*

Total Absent: *08*

Total Present: *26*

Name & Sign of Supervisor

P. R. Sutar/Kor

Sr Supervisor

HEAD OF DEPARTMENT
CIVIL ENGINEERING
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ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY
COLLEGE OF ENGINEERING, PUNE
Academic Year – 2022-23, Semester II
Civil Engineering Department

Unit Test I

Date :-

Class: T.E. (A) Civil -2019 Course Subject:D.R.G.S.....

Class Room No. : 444

| SN | Roll No. | Name of Student | Marks | Sign |
|----|----------|----------------------------|-------|------|
| 1 | 20CV038 | GODBHARLE V DNYANOBA | 13 | |
| 2 | 20CV040 | GUNJAL VEDANT MILIND | 14 | |
| 3 | 20CV041 | GURAP DEVAYANI SHASHIKANT | 12 | |
| 4 | 20CV042 | HIRE MANDAR RAVINDRA | 13 | |
| 5 | 20CV043 | INGALE A JAYAWANT | 14 | |
| 6 | 20CV044 | INGALE PRASHANT KALURAM | 13 | |
| 7 | 20CV046 | JADHAV SANKET POPAT | 12 | |
| 8 | 20CV047 | JADHAV TEJAS VISHWAS | 13 | |
| 9 | 20CV048 | JAGTAP AVISHKAR SATISH | | A-B |
| 10 | 20CV050 | JAYBHAYE SAKSHI SURESH | 14 | |
| 11 | 20CV051 | JOSHI SOHAM SHRIRAM | | A-B |
| 12 | 20CV052 | KALA SAMYAK SHONIT | 12 | |
| 13 | 20CV053 | KALE DEVASHISH PRADIP | 10 | |
| 14 | 20CV054 | KALE PRATIK BALU | 11 | |
| 15 | 20CV056 | KAMTHE SAHIL KALURAM | 10 | |
| 16 | 20CV057 | KAPRE PARTH PRASAD | 11 | |
| 17 | 20CV058 | KARLEKAR DHANSHREE SANJEEV | 12 | |
| 18 | 20CV059 | KAUSHAL MAHESH SHINDE | 13 | |
| 19 | 20CV061 | KHAIRNAR VIRAJ BALU | 14 | |
| 20 | 20CV062 | KHANOLKAR Y PARASHURAM | | A-B |
| 21 | 20CV063 | KHARE KALPESH SHANTARAM | 13 | |
| 22 | 20CV064 | KOLATE TRUPTI ARVIND | | A-B |
| 23 | 19CV086 | PHADATARE KIRAN SANJAY | | A-B |
| 24 | 20CV003 | ADIL AHMAD DAR | 14 | |
| 25 | 20CV007 | BACHHAV PRASAD NIMBA | | A-B |
| 26 | 21CV302 | BANKAR GAURAV SHRIKANT | 13 | |
| 27 | 21CV303 | BANKAR SREYAS SAHEBRAO | 13 | |
| 28 | 20CV008 | BARVE AJINKAY MOSHE | 12 | |
| 29 | 20CV010 | BELDAR SANJOT NITIN | 12 | |
| 30 | 20CV011 | BHADANE HIMANSHU DILIP | 15 | |
| 31 | 20CV012 | BHALEGHARE PRATHAM P | 16 | |
| 32 | 20CV015 | BHAWARI NILANJAN KANTARAM | 13 | |
| 33 | 21CV309 | CHAFLE SAHIL SHEMDEO | | A-B |
| 34 | 20CV017 | CHAUDHARI SOHAM DINESH | 12 | |
| 35 | 20CV025 | DANGADE KUNAL BABASAHEB | 11 | |

Total Students : 35

Total Absent : 7

Total Present : 28

Name & Sign of Supervisor

P. R. Satarkar

Sr Supervisor

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

Civil Engineering Department

Date :-

Class: T.E. (A) Civil -2019 Course Subject: Room No. : FM LAB(23)

[illegible]

Total Present : 04

Name & Sign of Supervisor

P. R. Sator/Cur

Sr Supervisor

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE
DEPARTMENT OF: COMPUTER ENGINEERING**

UNIT TEST: I

Class: B.E(A)

AY: 2022-23 Term: II

Course: High Performance Computing

Course Code: 410250

Time: 09:15 AM: 10:15 AM

Max. Marks: 30

CO 1: Understand various Parallel Paradigm

CO 2: Design and Develop an efficient parallel algorithm to solve given problem


Mention Cognitive Level: Remember, Understand, Apply, Analyze, Evaluate, Create

| Q. No. | Question | Marks | Cognitive Level |
|--------|--|-------|-----------------|
| Q1) | a) Describe various applications of Parallel Computing | 5 | Understand |
| | b) Explain the basic working principle of VLIW Processor? | 5 | Understand |
| | c) Define Uniform Memory access and Non Uniform memory access with diagrammatic representation | 5 | Remember |
| | OR | | |
| Q2) | a) Describe SIMD, MIMD architecture with suitable diagram | 5 | Understand |
| | b) Explain Architecture of an Ideal parallel computer | 5 | Understand |
| | c) Write short note on Levels of Parallelism | 5 | Understand |
| Q3) | a) How will you define processes and their mapping? | 5 | Remember |
| | b) What are different decomposition techniques? Explain in detail. | 5 | Understand |
| | c) Explain in details characteristics of task & task interaction. | 5 | Understand |
| | OR | | |
| Q4) | a) Enlist in details different parallel algorithm models. | 5 | Remember |
| | b) What are the limitations of parallel performance? | 5 | Understand |
| | c) Explain in details static mapping and dynamic mapping. | 5 | Understand |


Course Teacher


Module Coordinator


Academic Coordinator


Head of Department
H.O.D.
Computer Engg Dept
AISSMS COE Pune



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Department of Computer Engineering

Unit Test & Assignment Record

| | | | |
|-----------------|-----------------|------------------|------|
| Academic Year | 2022-2023 | Term | II |
| Subject | HPC | Class / Division | BE A |
| Name of Faculty | Vipul S. Gunjal | | |

| Roll No. | Name of the Student | UT-1 (30) | UT-2 (30) | UT-3 (30) | Assignment (30) | Assignment (30) | |
|----------|----------------------------------|--------------|--------------|--------------|--------------------|--------------------|---------|
| 19CO001 | AASHAY SACHIN BHUJBAL | 28 | 26 | 26 | 29 | 30 | |
| 19CO002 | ADMUTHE MITALI MANISH | 27 | 26 | 28 | 30 | 27 | HYA |
| 19CO004 | ALEX SUNNY | 26 | 27 | 30 | 29 | 28 | |
| 19CO005 | AMOGH CHAUHAN | 30 | 26 | 30 | 26 | 29 | Amf |
| 19CO006 | ARVIND SUDARSHAN | 29 | 30 | 26 | 27 | 26 | A |
| 20CO301 | BHALCHIM PRIYA VISHWAS | 29 | 27 | 29 | 30 | 28 | Priya |
| 19CO009 | BHILARE KSHITIJ SHASHIKANT | 30 | 26 | 29 | 26 | 27 | |
| 19CO010 | BHOSALE ATHARVA ABHAY | 26 | 28 | 27 | 30 | 29 | ABHAY |
| 19CO011 | CHATANE SHREE ATUL | 27 | 26 | 29 | 30 | 26 | |
| 19CO012 | DABIR AISHWARYA SHARAD | 26 | 30 | 27 | 26 | 30 | Sharad |
| 19CO013 | DANDGE SHRIKANT ASHOK | 28 | 29 | 27 | 30 | 28 | Dandge |
| 19CO015 | DEOKAR HRISHIKESH MARUTI (TWS) | 26 | 28 | 29 | 27 | 26 | Deokar |
| 19CO016 | DESHPANDE SUDHANSHU SUBODH (EWS) | 30 | 29 | 30 | 26 | 28 | |
| 19CO017 | DEVKATE KARAN KRISHNATH | 27 | 28 | 26 | 30 | 29 | Devkate |
| 19CO018 | DHOTE SAMIKSHA TILAKCHAND | 30 | 26 | 27 | 28 | 30 | |
| 19CO019 | DHUMAL PRAJAKTA DADABHAU | 29 | 27 | 28 | 26 | 29 | Dhumal |
| 19CO020 | EKSAMBEKAR YASH SAGAR | 26 | 30 | 26 | 30 | 28 | Yash |
| 19CO021 | GADGE SAHIL NIVRUTTI | 26 | 28 | 27 | 29 | 29 | Gadge |
| 19CO022 | GADKARI GAURAV SUDHIR | 29 | 26 | 28 | 26 | 30 | Gadkari |
| 19CO023 | GAIDHANI PRAJWAL ASHOK | 26 | 27 | 29 | 27 | 26 | |
| 20CO303 | GAIKWAD SAKSHI ATUL | 30 | 30 | 30 | 30 | 29 | Sakshi |
| 19CO024 | GAIKWAD UDAY VIJAYSINH | 26 | 29 | 29 | 28 | 30 | Uday |
| 20CO304 | GATKAL SHRUTI VISHNU | 26 | 28 | 26 | 29 | 28 | Shruti |
| 19CO025 | GHADGE INDRAJEET SUBHASH | 30 | 26 | 27 | 30 | 26 | |
| 20CO305 | GHODAKE SHUBHAM SHIVAJI | 29 | 29 | 28 | 26 | 28 | Shubham |
| 19CO026 | GHUGE RUSHIKESH MADANRAO | 27 | 30 | 30 | 27 | 29 | Rushi |



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| Roll No. | Name of the Student | UT-1 | UT-2 | UT-3 | Assignment 1 | Assignment 2 | |
|----------|-----------------------------------|------|------|------|--------------|--------------|------------|
| 19CO028 | HARSH TIWARI (J&K) | 26 | 27 | 28 | 30 | 29 | Harsh |
| 19CO029 | HATEKAR AISHWARYA TANAJI | 27 | 26 | 29 | 27 | 28 | A.Hatekar |
| 19CO030 | JADHAV KIRTI PRADIP | 30 | 30 | 26 | 27 | 29 | Kirki |
| 19CO031 | JAGTAP ATHARVA MAHESH | 29 | 26 | 29 | 29 | 30 | amr |
| 19CO032 | JAGTAP HRUTVIK SHAHAJI | 26 | 27 | 30 | 29 | 30 | he |
| 19CO033 | JAGTAP OMKAR DATTATRAY | 28 | 26 | 28 | 30 | 29 | Omkar |
| 19CO034 | JAGTAP PRATIK VINOD | 30 | 29 | 30 | 29 | 30 | Pratik |
| 19CO035 | JAGTAP SHREYA ATUL | 26 | 26 | 28 | 30 | 29 | Shrestha |
| 19CO036 | JAMBHULKAR TUSHAR RAJU (TFWS) | 29 | 27 | 29 | 30 | 27 | Tushar |
| 19CO037 | KADALE PRATHAMESH KAMALAKANT | 30 | 26 | 30 | 29 | 30 | Prathamesh |
| 19CO038 | KAKANI PRANAV ARVIND | 30 | 27 | 30 | 29 | 28 | Pranav |
| 19CO039 | KALASKAR ROHAN RAJENDRA | 26 | 30 | 29 | 27 | 26 | Rohan |
| 19CO040 | KAMBLE PRATIK MAHENDRA | 24 | 26 | 28 | 29 | 30 | Pratik |
| 19CO041 | KARMAN SINGH SETHI | 30 | 27 | 26 | 28 | 29 | Manish |
| 19CO042 | KAWALE ANUSHKA ANIL | 29 | 30 | 29 | 30 | 26 | Anushka |
| 19CO043 | KHADTARE ANURAG VIJAY | 30 | 27 | 29 | 30 | 26 | Anurag |
| 19CO044 | KHANDELWAL HARSH PRAMOD (EWS) | 28 | 29 | 30 | 26 | 27 | Harsh |
| 19CO045 | KHEDKAR PRATIKSHA BALASAHEB | 28 | 30 | 28 | 29 | 30 | Pratiksha |
| 18CO031 | KOTHAWADE RUSHIKESH KISHOR | 26 | 26 | 27 | 29 | 30 | R.K.K. |
| 20CO306 | MAHAJAN ABHIJIT RAJENDRA | 26 | 30 | 28 | 29 | 30 | Abhi |
| 19CO049 | MEHER SWANAND GURUNATH | 30 | 26 | 28 | 29 | 30 | Swanand |
| 19CO050 | MOHIT SUNIL SARODE | 29 | 28 | 29 | 30 | 28 | Mohit |
| 20CO307 | MOKALKAR RENUKA ASHOK | 28 | 27 | 28 | 27 | 28 | Renuka |
| 19CO051 | MULIK ABHISHEK SANJAY | 26 | 28 | 26 | 26 | 29 | Abhishek |
| 19CO052 | NIKAM RITESH SANJEEVAN | 27 | 29 | 29 | 28 | 30 | Ritik |
| 18CO040 | PATIL KRISHNAKANT SANJAY | 30 | 26 | 30 | 29 | 30 | Krishi |
| 19CO054 | PAWAR ATHARVA SAMADHAN | 29 | 30 | 30 | 30 | 27 | Atharva |
| 19CO055 | PAWAR SHRUTI CHANDRAKANT | 30 | 29 | 30 | 30 | 26 | Shruti |
| 19CO056 | PINGALE PRATIK BAJIRAO | 26 | 28 | 29 | 27 | 30 | Pratik |
| 20CO308 | POOJA BALOO KHADE | 28 | 30 | 30 | 26 | 29 | Pooja |
| 18CO046 | PRANAV PRAKASH HABIB | 27 | 30 | 27 | 27 | 28 | Pranav |
| 19CO058 | RAJPUT RUPESH BHUPENDRASING (EWS) | 30 | 28 | 26 | 29 | 27 | Rupesh |



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| Roll No. | Name of the Student | UT-1 | UT-2 | UT-3 | Assignment 1 | Assignment 2 | |
|----------|----------------------------------|------|------|------|--------------|--------------|------------------|
| 19CO059 | RAUT ATHARVA HEMANT | 27 | 26 | 29 | 30 | 28 | <i>He</i> |
| 19CO060 | ROHAN DAYAL | 26 | 29 | 30 | 28 | 29 | <i>ofen</i> |
| 19CO061 | SAGNIK ROY | 30 | 30 | 29 | 26 | 27 | <i>Lal</i> |
| 20CO309 | SARDE SHRAVANI SHRIKANT (EWS) | 29 | 28 | 26 | 30 | 29 | <i>Shravani</i> |
| 19CO062 | SHAIKH ZAKI AHMED KHALID | 25 | 30 | 27 | 28 | 30 | <i>Shaikh</i> |
| 19CO063 | SHARMA GUNJAN LAXMINARAYAN (EWS) | 27 | 28 | 29 | 30 | 30 | <i>Gunjan</i> |
| 19CO064 | SURYAWANSHI VEDANT KISHOR | 29 | 27 | 28 | 26 | 30 | <i>Surj</i> |
| 19CO065 | SYED SABA MUSTAFA | 30 | 26 | 28 | 30 | 27 | <i>Saba</i> |
| 19CO066 | TANVI PAIGUDE | 26 | 27 | 30 | 29 | 26 | <i>Tan</i> |
| 19CO067 | TATIYA YASH ASHOK (EWS) | 27 | 26 | 30 | 29 | 30 | <i>Yash</i> |
| 19CO068 | THAKARE TEJAL VINAYAK | 26 | 30 | 28 | 29 | 27 | <i>Tejal</i> |
| 19CO069 | TILEKAR VIRAJ VAIBHAV | 28 | 26 | 30 | 29 | 30 | <i>Viraj</i> |
| 19CO070 | UDAY SHARMA (JKSSS) | 29 | 27 | 28 | 30 | 29 | <i>Uday</i> |
| 19CO071 | WAGH MAHANT ISHWAR | 26 | 28 | 27 | 30 | 29 | <i>Wagh</i> |
| 19CO072 | YADNIK ABHILASH VIJAY (EWS) | 27 | 30 | 29 | 30 | 28 | <i>Yadnik</i> |
| 19CO073 | ZOPE SHUBHAM MOHAN | 26 | 27 | 29 | 30 | 26 | <i>Zope</i> |
| 19CO074 | ZOPE TANAY PRADEEP | 30 | 30 | 30 | 29 | 26 | <i>Tanay</i> |
| 19CO053 | PANCH LAXMI MUKUND | 28 | 26 | 27 | 20 | 30 | <i>Laxmi</i> |
| 19CO027 | GURSHAN SINGH (JKSSS) | 28 | 29 | 26 | 30 | 26 | <i>Gurshan</i> |
| 18CO051 | SALUNKE AKANKSHA TUKARAM | 30 | 30 | 29 | 30 | 28 | <i>Akanksha</i> |
| 19CO008 | BHANU PRATAP SINGH (JKSSS) | 29 | 39 | 28 | 26 | 27 | <i>Bhanu</i> |
| 19CO057 | PRIYANSHU SHARMA (JKSSS) | 30 | 30 | 28 | 27 | 26 | <i>Priyanshu</i> |
| 20CO302 | BOROLE POURNIMA VIJAY | 26 | 27 | 28 | 30 | 29 | <i>Borole</i> |
| 19CO007 | BADVE SHRIDHAN SANJAY | 30 | 26 | 27 | 29 | 30 | <i>Shridhan</i> |

Gunjal v.s
Name & Sign
Course Teacher



ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING

KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name ALEX SUNNY

Roll No.: 19C0004

Subject High Performance Computing Division: BE Computer A

Examination Unit I

Day & Date: Friday 10/03/2023

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|----|----|----|---|---|---|---|---|---|----|-------------|
| Marks | 15 | 10 | 12 | | | | | | | | 26/30 |

Examiner Signature

- Q.1. A] Describe various applications of parallel computing.
B] Explain basic working principle of VLIW processor.
C] Define uniform memory access and non-uniform memory access with diagrams.

OR

- Q.2. A] Describe SIMD, MIMD architecture with diagrams.
B] Explain the architecture of an ideal parallel computer.
C] Write short note on levels of parallelism.

- Q.3. A] How will you define processes and their mapping?
B] What are the different decomposition techniques? Explain in detail.
C] Explain in detail characteristics of tasks and task interaction.

OR

- Q.4. A] Enlist in detail different parallel algorithm model.
B] What are the limitations of parallel performance?
C] Explain in detail static and dynamic mapping.

Ans. 1.

A1 Parallel computing refers to the technique of executing a task on multiple processors concurrently.

This aims to utilize the computing power of numerous processors.

Applications :

① Load balancing : Using parallel computing, various tasks can be distributed to multiple processors. So the task can be completed simultaneously in an effective manner. Load balancing may be static or dynamic.

② Pipelining : Parallelism is used in pipelining architecture where tasks are scheduled one after another and be completed concurrently.

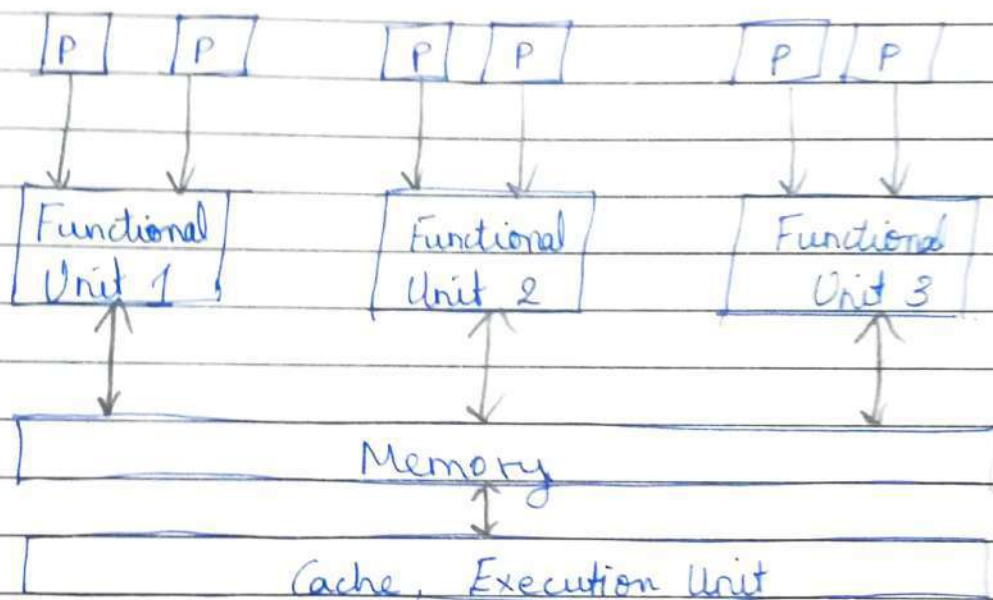
③ Supercomputers : In super-computers there are large number of processors that perform computations quickly and concurrently. Thus it is able to perform high computation jobs.

④ Multi-threading : A single process can be divided into multiple threads which can be solved independently and simultaneously. The final result is combined.

(c) Used in General Purpose - Cache-Based Microprocessor:

This processor simultaneously accesses L1 and L2 cache to perform computations.

Am. B]



Architecture of VLIW.

* Very Long Instruction Word

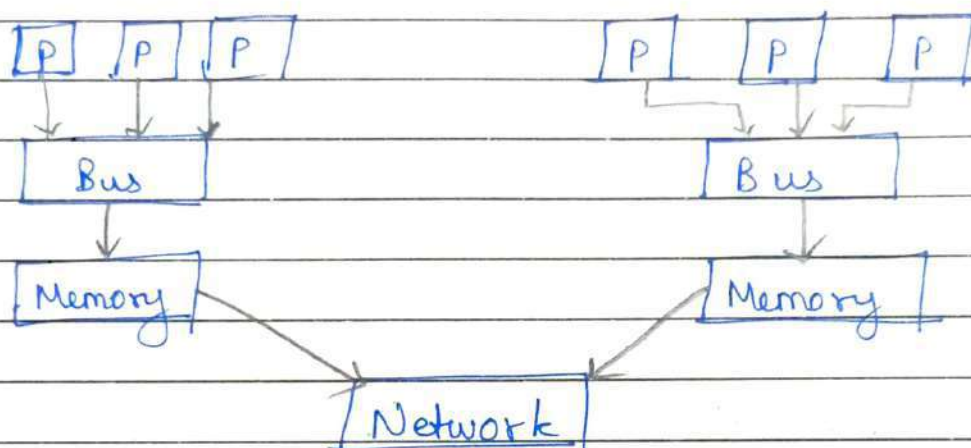
- This is a processor that takes in very long words as its inputs.
- It processes large instructions very effectively.
- Generally, the input size ranges from 32 - 1024 bits.

- The main feature of a VLIW processor is that it has multiple functional units.
- These functional units process the very long word instructions concurrently.
- The processed instructions are fed back to a common memory.

- The common memory unit forwards the processed instruction to a common execution unit.
- The execution unit is the place where the tasks are ultimately executed in a parallel manner.

Ans. c]

* NUMA architecture:

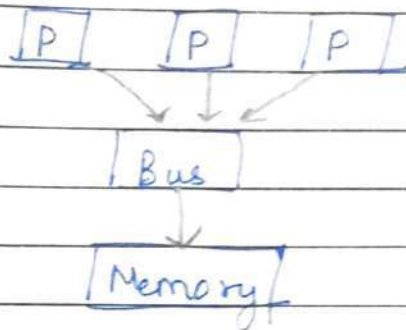


Non-uniform memory access:

- As the name suggests, in NUMA, the processes access memory in a non-uniform manner.
- Each process connects to a different bus.
- The bus facilitates the access to the memory for the ~~pro~~ individual processes.
- In the most abstracted level, the memory non-uniform memory are connected by a common network.
- The NUMA method is comparatively complex than the UMA method as it involves multiple buses over the

entire network.

* UMA architecture:



- In the uniform memory access architecture, all the processes access the memory in a uniform pattern.
- The memory access is direct.
- The way all processes access the memory for carrying out their tasks is same.
- This is a much more simple method.
- However, wait time for each process increases, as all access from the common memory location.
- Its implementation is simple.
- However it may not be as effective as the NUMA architecture.

Q.4.

A] There are different parallel algorithm models that can be implemented at various levels.

i) Bit level parallelism: This is the most basic level that implements parallel programming at the level of bits i.e 0 and 1.

ii) Instruction level parallelism: This is a more abstract level of parallelism that involves instructions that are a combination of bits and bytes.

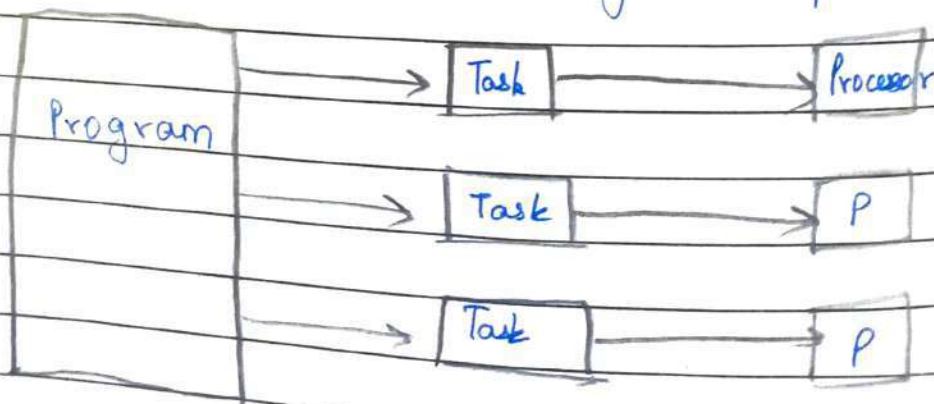
Parallel algorithms can be modelled into two types broadly:

① Synchronized: In this method, though tasks are implemented distributed parallelly, each task has to wait for the complete execution of previous task for its implementation.

- This is a much more time consuming method.
- It does not realise the actual aim of parallel computing many times.

② Asynchronized: In this method, tasks are executed and implemented on different processors simultaneously and concurrently.

- The wait time is drastically reduced.
- The next task may need not wait for the current task to get completed.



18] Limitations of parallel computing:

- 1) Though parallel computing provides many benefits in the form of effective output and reduced waiting time it comes at a cost.
- 2) Parallel computing requires high systems with high computational power and powerful processors to achieve the benefits.
- 3) It requires the hardware cost increases as multiple processors and networking is required.
- 4) Since parallel computing requires distributed processors, all of them must be properly synchronized and connected to enable proper timing and functioning.
- 5) Load balancing techniques are required so we need to separately invest in load balancers.
- 6) Most of the times, the size and requirements of a task are not known. So this may lead to issues that arise dynamically during execution.
- 7) Parallel computing requires high energy input in the form of electric power requirements. This may lead to increased costs.

Q. The main methods of mapping of processes to respective processors are :

- Static mapping.
- Dynamic mapping.

① Static mapping : This is the basic method of mapping tasks to processors.

- Here the tasks are mapped to processors prior to the execution of the algorithm.
- All the task mapping is finished, then only the parallel algorithm is executed.
- This is a simpler method and easy to implement.
- Its types are :
 - Deterministic static mapping
 - Cyclic and acyclic static mapping
- ~~It~~ Load balancing happens in a uniform manner.

② Dynamic mapping : As the name suggests, this is done during runtime.

- Tasks are mapped to processors during the execution of the parallel algorithm.
- Dynamic mapping is used when :
 - The number of tasks is not known.
 - The size of the tasks is not known.
 - Tasks are generated dynamically.
- This is a much more effective method.
- Tasks of different sizes are allocated to processors according to their respective capacity. So it is non-uniform.
- However, it is more complex to implement.



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22-23

sem I

DEPARTMENT OF COMPUTER ENGINEERING

B.E. Computer, SEM I [2022-23]

Test: 2

SUBJECT: Blockchain Technology

[Sub. Code: 410243]

[Time: 1 hr Min 10] (Date: 12/10/2022)

Class : BE

[Max Marks: 30]

Instructions to the candidates:

- Figures to the right indicate full marks.
- Assume suitable data, if necessary

CO3: Use Crypto wallet for cryptocurrency based transactions

CO4: Analyze the importance of blockchain in finding the solution to the real-world problems.

Q1. A) Explain how public block chains ensure the adherence of transaction and block-writing rules. [05]

Q1. B Differentiate between a public/permissionless and a private/permissioned blockchain. [05]

OR

Q2. A) How assets ownership use case can be implemented with private blockchain

Q2. B List down advantages and disadvantages of Consortium blockchain [05]

Q3. A) Write a short note on DeFi, IOTA. [05]

Q3. B) Compare Bitcoin and Ethereum [05]

OR

Q4. A) What are Non fungible tokens? What are its applications [05]

Q4. B) What are the drawbacks of IOTA? [05]

Q5. A) What is cryptocurrency? Explain in brief. [05]

Q5. B) State and explain the advantages and disadvantages of cryptocurrency. [05]

OR

Q6. A) State and explain different types of cryptocurrencies [05]

Q6. B) Write a short note on Metamask. [05]

Handwritten signature

H.O.D.
Computer Engg. Dept.



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KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Roll No.: 19C0031

Name: Atharva Mahesh Jagtap.

Division: computer - A BE

Subject: Blockchain Technology

Day & Date: 12/10/22
Tuesday

Examination: Unit Test 2.

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|--|--|-------------|
| Marks | | | | | | | | | | | | | 28/30 |

Examiner Signature

Q1) Explain how public block chain ensures the adherence transaction & block writing rules.

① A public blockchain is permissionless blockchain allowing universal access to read, write & validate information stored in network.

② Public blockchain ensure the adherence of transaction & block writing rules through consensus protocol.

③ The consensus process goes beyond rules that are written in blockchain code & involves incentive mechanisms to ensure about proper functioning of validator network.

④ The code sets the limit on miner activities that can written into software for instance adding an invalid transaction, switching input or output addresses or modifying transaction amount.

⑤ However, code excludes all potential misbehaviour such as rewriting a block already included on the blockchain.

⑥ These actions are regulated by implicit & explicit incentive mechanism.

⑦ eg. of explicit mechanism is bitcoin & eg. of implicit

mechanism is agreement by miners not to mine on top of empty blocks.

Q1. 8]

Public blockchain

① In this type of blockchain anyone can read, write & participate in blockchain. Hence it is permissionless blockchain.

② Public blockchain is decentralized.

③ It is slow.

④ Transaction per second are lesser in public blockchain.

⑤ It is more secure.

⑥ Network actors don't know each other.

⑦ eg. Bitcoin, Monero, etc.

Private blockchain.

① In this type of blockchain read & write is done upon invitation, hence it is permissioned blockchain.

② Private blockchain is centralized.

③ It is faster.

④ Transaction per second is more compared to public blockchain.

⑤ It is less secure.

⑥ Network actors know each other.

⑦ eg. Corda, R3, etc.

Q3) A] write short note on DeFi & IOTA.

a) DeFi -

① DeFi is a decentralized finance.

② DeFi is a collective term for financial products & services that are accessible to anyone who can use ethereum - anyone with internet connection.

③ DeFi uses emerging technology to remove third party & centralized institutions from financial transactions.

④ With DeFi the markets are always open & there are no centralized authorities who can block payments & deny the access.

⑤ Services that were previously slow & at risk of human error are automatic & safer now that they handled by code that anyone can inspect.

⑥ The components of DeFi are stablecoins, software, & hardware enables development of application.

b) IOTA -

① IOTA is an open-source distributed ledger & cryptocurrency designed for Internet of Things (IoT).

② IOTA doesn't use miners to validate transactions instead nodes that can issue a new transaction on network must approve two previous transactions.

③ IOTA has been the target of phishing, scamming, & hacking attempts which have resulted in thefts, of user tokens & extended periods of downtime IOTA token.

④ IOTA token are stored in IOTA wallet protected by 81 character, similar to password. To access & spend the tokens, IOTA provides a cryptocurrency wallet.

Q3) 8]

Bitcoin

① The purpose of bitcoin is to replace national currencies during financial crisis of 2008.

② It doesn't have smart contracts.

③ Bitcoin runs on SHA-256 hash function.

④ The block time of bitcoin is 10 minutes.

⑤ It has block limit of 1MB.

⑥ Bitcoin transactions are only for keeping notes.

Ethereum

① The purpose of ethereum is to utilize blockchain technology for maintaining a decentralized payment network.

② It has smart contracts.

③ Ethereum runs on Ethash proof-of-work algorithm.

④ Block time of ethereum is 12 to 15 seconds.

⑤ It doesn't have block limit.

⑥ Ethereum transaction may contain executable code.



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KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Atharva Jagtap

Roll No.: 19C0031

Subject

Division

Examination

Day & Date

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|--|--|-------------|
| Marks | | | | | | | | | | | | | |

Examiner Signature

Q6] 1] What different types of cryptocurrencies?

① Bitcoin -

i) It is the first cryptocurrency that was introduced & considered the digital gold. A unit of bitcoin can be broken down into satoshis, which is equivalent to relationship of rupees & paise.

ii) Furthermore, the bitcoin network is so designed that it can only have 21 million units of bitcoin circulation at any point in time.

iii) The limited availability is primary component that drives its market price, currently it is 18.39 million.

② Altcoins -

i) This category primarily involves forks & alternative version of bitcoin. Although some altcoins are exponentially different from bitcoin & use varying algorithms.

ii) Currently, there are some thousands of altcoins. Some of the notable altcoins are ethereum, factom, NEO, etc.

③ Tokens -

- i) These are products of altcoins like ethereum & NEO.
- ii) These cryptocurrencies don't have separate blockchain but instead run on decentralized apps created via such altcoins.
- iii) However, tokens carry supremely low value compared to the other two types mentioned above, because they can only be used to purchase items from such decentralized apps or dApps.

Q6) B] Write short note on metamask.

- ① metamask is a type of ethereum wallet that bridges the gap between the user interfaces for ethereum (eg. dApps) & regular app (eg. chrome).
- ② It's a function is to inject a javascript library called web3.js into the namespace of each page your browser loads. web3.js is written by the ethereum core team.
- ③ metamask is mainly, used as a plugin in chrome.
- ④ metamask is the trailblazing tool enabling user interactions & experience on web3. It's a currency available as a browser extension & as a mobile app on both Android & ios devices.
- ⑤ The purpose of documentation is to illustrate how to build a dApp with metamask.
- ⑥ metamask was created to meet the needs of secure & usable ethereum based websites. In particular it handles account management & connecting the user to blockchain.



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Department of Computer Engineering

Unit Test 2


Class: BE-I (A)

Subject: Blockchain Technology 12/10/22

| Sr. | Roll No. | Name of the Students | Marks | Sign |
|-----|----------|------------------------------|-------|--------|
| 1 | 19CO001 | AASHAY SACHIN BHUJBAL | | |
| 2 | 19CO002 | ADMUTHE MITALI MANISH | 28 | M.A.D. |
| 3 | 19CO006 | ARVIND SUDARSHAN | 26 | A.S. |
| 4 | 19CO007 | BADVE SHRIDHAN SANJAY | 22 | S.S. |
| 5 | 20CO301 | BHALCHIM PRIYA VISHWAS | 28 | P.V. |
| 6 | 19CO009 | BHILARE KSHITIJ SHASHIKANT | 26 | K.S. |
| 7 | 19CO010 | BHOSALE ATHARVA ABHAY | 28 | A.A. |
| 8 | 20CO302 | BOROLE POURNIMA VIJAY | 22 | P.V. |
| 9 | 19CO011 | CHATANE SHREE ATUL | 22 | S.A. |
| 10 | 19CO005 | CHAUHAN AMOGH | 28 | A.C. |
| 11 | 19CO012 | DABIR AISHWARYA SHARAD | 27 | A.S. |
| 12 | 19CO013 | DANDGE SHRIKANT ASHOK | 25 | S.A. |
| 13 | 19CO015 | DEOKAR HRISHIKESH MARUTI | 27 | H.M. |
| 14 | 19CO016 | DESHPANDE SUDHANSHU SUBODH | 25 | S.S. |
| 15 | 19CO017 | DEVKATE KARAN KRISHNATH | 29 | K.K. |
| 16 | 19CO018 | DHOTE SAMIKSHA TILAKCHAND | 28 | S.T. |
| 17 | 19CO019 | DHUMAL PRAJAKTA DADABHAU | 24 | P.D. |
| 18 | 19CO020 | EKSAMBEKAR YASH SAGAR | 20 | Y.S. |
| 19 | 19CO021 | GADGE SAHIL NIVRUTTI | 24 | S.N. |
| 20 | 19CO022 | GADKARI GAURAV SUDHIR | 21 | G.S. |
| 21 | 19CO023 | GAIDHANI PRAJWAL ASHOK | 27 | P.A. |
| 22 | 20CO303 | GAIKWAD SAKSHI ATUL | 27 | S.A. |
| 23 | 19CO024 | GAIKWAD UDAY VIJAYSINH | 27 | U.V. |
| 24 | 20CO304 | GATKAL SHRUTI VISHNU | 26 | S.V. |
| 25 | 19CO025 | GHADGE INDRAJEET SUBHASH | 26 | I.S. |
| 26 | 20CO305 | GHODAKE SHUBHAM SHIVAJI | 27 | S.S. |
| 27 | 19CO026 | GHUGE RUSHIKESH MADANRAO | AB | AB |
| 28 | 19CO027 | GURSHAN SINGH | 16 | G.S. |
| 29 | 18CO046 | Habib Pranav Prakash | 25 | P.P. |
| 30 | 19CO029 | HATEKAR AISHWARYA TANAJI | | A.T. |
| 31 | 19CO030 | JADHAV KIRTI PRADIP | 26 | K.P. |
| 32 | 19CO031 | JAGTAP ATHARVA MAHESH | 28 | A.M. |
| 33 | 19CO032 | JAGTAP HRUTVIK SHAHAJI | 25 | H.S. |
| 34 | 19CO033 | JAGTAP OMKAR DATTATRAY | 24 | O.D. |
| 35 | 19CO034 | JAGTAP PRATIK VINOD | | P.V. |
| 36 | 19CO035 | JAGTAP SHREYA ATUL | 24 | S.A. |
| 37 | 19CO036 | JAMBHULKAR TUSHAR RAJU | | T.R. |
| 38 | 19CO037 | KADALE PRATHAMESH KAMALAKANT | 17 | P.K. |
| 39 | 19CO038 | KAKANI PRANAV ARVIND | | P.A. |
| 40 | 19CO039 | KALASKAR ROHAN RAJENDRA | | R.R. |

| | | | | |
|----|---------|-----------------------------|----|---------------|
| 41 | 19CO040 | KAMBLE PRATIK MAHENDRA | 27 | Pratik |
| 42 | 19CO041 | KARMAN SINGH SETHI | 22 | K. SETHI |
| 43 | 19CO042 | KAWALE ANUSHKA ANIL | 28 | Anushka |
| 44 | 20CO308 | KHADE POOJA BALOO | 18 | Pooja |
| 45 | 19CO043 | KHADTARE ANURAG VIJAY | | |
| 46 | 19CO044 | KHANDELWAL HARSH PRAMOD | 24 | Harsh |
| 47 | 19CO045 | KHEDKAR PRATIKSHA BALASAHEB | 26 | Pratiksha |
| 48 | 18CO031 | Kothawade Rushikesh Kishor | 18 | R.K.Kothawade |
| 49 | 20CO306 | MAHAJAN ABHIJIT RAJENDRA | 24 | Abhi |
| 50 | 19CO049 | MEHER SWANAND GURUNATH | 26 | |
| 51 | 20CO307 | MOKALKAR RENUKA ASHOK | 26 | Renuka |
| 52 | 19CO051 | MULIK ABHISHEK SANJAY | 20 | Abhishek |
| 53 | 19CO052 | NIKAM RITESH SANJEEVAN | | |
| 54 | 19CO053 | PANCH LAXMI MUKUND | 22 | Laxmi |
| 55 | 18CO040 | Patil Krishnakant Sanjay | 28 | Krishnakant |
| 56 | 19CO054 | PAWAR ATHARVA SAMADHAN | | AB |
| 57 | 19CO055 | PAWAR SHRUTI CHANDRAKANT | 26 | Shruti |
| 58 | 19CO056 | PINGALE PRATIK BAJIRAO | 19 | Pratik |
| 59 | 19CO057 | PRIYANSHU SHARMA | | |
| 60 | 19CO058 | RAJPUT RUPESH BHUPENDRASING | | AB |
| 61 | 19CO059 | RAUT ATHARVA HEMANT | | |
| 62 | 19CO060 | ROHAN DAYAL | 19 | Rohan |
| 63 | 19CO061 | SAGNIK ROY | | |
| 64 | 18CO051 | SALUNKE AKANSHA TUKARAM | 26 | Akansha |
| 65 | 20CO309 | SARDE SHRAVANI SHRIKANT | 19 | Shravani |
| 66 | 19CO050 | SARODE MOHIT SUNIL | 23 | Mohit |
| 67 | 19CO062 | SHAIKH ZAKI AHMED KHALID | 23 | Zaikh |
| 68 | 19CO063 | SHARMA GUNJAN LAXMINARAYAN | 23 | Gunjan |
| 69 | 19CO008 | SINGH BHANU PRATAP | | |
| 70 | 19CO004 | SUNNY ALEX | 28 | Alex |
| 71 | 19CO065 | SYED SABA MUSTAFA | 26 | Saba |
| 72 | 19CO066 | TANVI PAIGUDE | 24 | Tanvi |
| 73 | 19CO067 | TATIYA YASH ASHOK | | |
| 74 | 19CO068 | THAKARE TEJAL VINAYAK | 28 | Tejal |
| 75 | 19CO069 | TILEKAR VIRAJ VAIBHAV | 20 | Viraj |
| 76 | 19CO028 | TIWARI HARSH | | |
| 77 | 19CO070 | UDAY SHARMA | 17 | Uday |
| 78 | 19CO064 | VEDANT KISHOR SURYAWANSHI | 24 | Vedant |
| 79 | 19CO071 | WAGH MAHANT ISHWAR | 23 | Mahant |
| 80 | 19CO072 | YADNIK ABHILASH VIJAY | 26 | Abhilash |
| 81 | 19CO073 | ZOPE SHUBHAM MOHAN | | |
| 82 | 19CO074 | ZOPE TANAY PRADEEP | 17 | Tanay |


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Department of Computer Engineering

Unit Test 2


Class: BE-I (B)

Subject: Blockchain Technology 12/10/22

| Sr. | Roll No. | Name of the Students | Sign |
|-----|----------|------------------------------|-----------|
| 1 | 19CS001 | AGRAWAL ISHA MANISH 25 | ISHA |
| 2 | 20CS301 | AHIRE SEJAL KISHOR 25 | Sejal |
| 3 | 19CS002 | AKASH CHAUDHARE 20 | Akash |
| 4 | 19CS003 | ANUSHKA ASHOK JOSHI 21 | Anushka |
| 5 | 20CS302 | AWATI SAIFALI SHEKALI 28 | Awati |
| 6 | 20CS303 | BAGADE SWARUPA DHANANJAY 25 | Swarna |
| 7 | 19CS004 | BANGALI ADITYA PRASHANT 23 | Aditya |
| 8 | 19CS005 | BHAGDE VAISHNAVI RAJESH 23 | Vaishnavi |
| 9 | 19CS006 | BHALERAO ADITYA AVINASH 23 | Aditya |
| 10 | 19CS041 | BHALLA SANIYA 25 | Saniya |
| 11 | 20CS304 | BHOSALE ADARSH AVINASH 22 | Adarsh |
| 12 | 19CS007 | BHOSALE RUCHA SURESH | Rucha |
| 13 | 19CS008 | BIRAJDAR AMIT KASHINATH 24 | Amit |
| 14 | 19CS009 | BORHUDE SHIVAM RAJENDRA | Shivam |
| 15 | 19CS010 | CHAKANKAR TEJAS VAIBHAV 23 | Tejas |
| 16 | 17CS011 | Deshpande Chinmay Milind 23 | Chinmay |
| 17 | 19CS012 | DEVEN WAYKAR | Deven |
| 18 | 19CS013 | DISHA RAJESH RATHOD 24 | Disha |
| 19 | 19CS014 | EDIGA LALIT KUMAR 18 | Lalit |
| 20 | 20CS306 | GADE CHHAYA NANDU 27 | Chhaya |
| 21 | 19CS015 | GANDHI SAHIL PRASHANT | Sahil |
| 22 | 19CS016 | GARGHATE NINAD BHARAT 17 | Ninad |
| 23 | 20CS307 | GHODEKAR NETRA YASHWANT 25 | Netra |
| 24 | 19CS018 | GIDWANI SAGAR RAJESH 24 | Sagar |
| 25 | 19CS019 | GIRI SHIVAM NAVNATH 21 | Shivam |
| 26 | 18CS019 | Gupta Tanuj Vijay 15 | Tanuj |
| 27 | 19CS020 | JADHAV PRANAV HARI 14 | Pranav |
| 28 | 19CS021 | JOSHI PARTH PRAVIN 13 | Parth |
| 29 | 19CS022 | KADAM ADITYA RAJESH 21 | Aditya |
| 30 | 19CS023 | KHAIRE GAURAV GOKUL 16 | Gaurav |
| 31 | 18CS002 | Khetarpal Aryan Dinesh 22 | Aryan |
| 32 | 19CS024 | KULKARNI ABHINAV PRASANNA 28 | Abhinav |
| 33 | 17CS025 | Kunjeer Samarjeet Santosh 17 | Samarjeet |
| 34 | 20CS308 | LABADE SRUSHTI RAJESH 24 | Srushti |
| 35 | 20CS309 | LIGADE POOJA SHAHAJI 25 | Pooja |
| 36 | 19CS025 | MACHE PRASAD PARSHURAM 22 | Prasad |
| 37 | 19CS026 | MAHAJAN BHUSHAN LAXMAN 22 | Bhushan |
| 38 | 19CS027 | MEHTA RAJ TUSHAR 16 | Raj |
| 39 | 19CS028 | MORE TANMAY ARVIND 23 | Tanmay |
| 40 | 19CS029 | NAHAR MOHIT PANKAJ 17 | Mohit |

| | | | | |
|----|---------|-------------------------------|----|--------------|
| 41 | 19CS038 | NAWALE PRATIK DADASAHEB | 20 | Pratik D. |
| 42 | 19CS030 | ONKAR ANIL MIRAJKAR | 24 | Onkar |
| 43 | 19CS031 | OSWAL HARSH RAJESH | 24 | Oswal |
| 44 | 19CS032 | PADWAL AKSHAY DATTATRAY | 19 | Padwal |
| 45 | 19CS017 | PARTH GAWARE | 16 | Parth |
| 46 | 19CS033 | PATIL AARYA ADHIKRAO | 22 | Patil |
| 47 | 19CS034 | PATIL AISHWARYA ASHOK | 27 | Patil |
| 48 | 19CS035 | PAWAR AISHWARYA PRAVIN | 23 | Pawar |
| 49 | 19CS036 | PINGALKAR VENKATESH SUNIL | 17 | Pingalkar |
| 50 | 19CS037 | PISE JANHAVI VILAS | 18 | Pise |
| 51 | 19CS039 | RATHOD PRANAV BANDU | 24 | Rathod |
| 52 | 19CS040 | SAMEEDHA MORE | 19 | Sameedha |
| 53 | 19CS043 | SARNAIK SAHIL MADHAV | | Sarnaik |
| 54 | 19CS044 | SAW PRAVEENKUMAR BHUVANESHWAR | 20 | Saw |
| 55 | 19CS045 | SHAH CHIRAG RAHUL | 20 | Shah |
| 56 | 19CS046 | SHAH DIPESH | 20 | Shah |
| 57 | 19CS048 | SHAIKH SADIYA ABDUL RAJJAK | 25 | Shaikh |
| 58 | 19CS049 | SHASHANK VINOD ZANZAD | 21 | Shashank |
| 59 | 19CS050 | SHEGAR DIPTI SUNIL | 17 | Shegar |
| 60 | 20CS305 | SHIMPI CHAITANYA RAJENDRA | 19 | Shimpi |
| 61 | 19CS042 | SHINDE SANKET ANILKUMAR | 23 | Shinde |
| 62 | 19CS051 | SHINDE TEJAS SHIVAJI | | Shinde |
| 63 | 19CS052 | SHINKAR TEJAS NITIN | 26 | Shinkar |
| 64 | 19CS059 | SHRUTI THORAT | 24 | Shruti |
| 65 | 19CS054 | SOMAN BHASKAR DHAVAL | 25 | Soman |
| 66 | 19CS055 | SONAWANE SAMRUDDHI RAMDAS | | Sonawane |
| 67 | 19CS056 | SURYAWANSHI RUSHIKESH BHATU | 17 | Suryawanshi |
| 68 | 19CS057 | TANDULWADKAR ADITYA SUNIL | 20 | Tandulwadkar |
| 69 | 19CS058 | TELTUMBADE SHRUTI RAMESH | 26 | Teltumbade |
| 70 | 19CS060 | UCHAGAONKAR RAJAS SHAILESH | 21 | Uchagaonkar |
| 71 | 19CS011 | VEDANT CHOUDHARY | 20 | Vedant |
| 72 | 19CS061 | WADKAR DEVANSHI PANKAJ | 25 | Wadkar |
| 73 | 19CS062 | WAGH PURVA CHANDRAKANT | 20 | Wagh |
| 74 | 19CS063 | WAGHADHARE SHREYASH PRASAD | 20 | Waghmare |
| 75 | 19CS064 | WAICHAL SRUSHTI NIRANJAN | | Waichal |
| 76 | 19CS066 | ZIMAL SUDARSHAN ANANDA | | Zimal |
| 77 | 19CS047 | SHAIKH ADIL | 21 | Shaikh |
| 78 | | | | |
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| 81 | | | | |
| 82 | | | | |


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Department of Electrical Engineering Test – 2 (Unit III and IV)

Class: TE Electrical

Date: 13/10/2022 9.15-10.15 am

Subject: EIDCBM

Max Marks: 20

CO Statement: Explain and analyze maintenance and condition monitoring of various electrical equipments.

Understand and analyze the different parameters to Estimate the cost of electrical wiring system for a given load

QUESTIONS

Q1. Define and explain Polarization Index and Dielectric Absorption Ratio. (5M)

Q2. What are different maintenance strategies? (5M)

OR

Q3. What are the different insulation stressing factors? Explain them in brief (5M)

Q4. Explain the use of thermography in power systems (5M)

Q5. Explain the different types of wires generally used for residential wiring (5M)

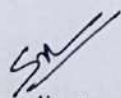
Q6. What are the essentials of estimation and costing (5M)

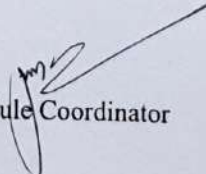
OR

Q7. While estimating, how price catalogue, labour rates and schedule of rates are correlated. (5M)

Q8. Write down the general rules for residential wiring (5M)

Remarks:


Course Coordinator


Module Coordinator


PAC Coordinator


H.O.D.

@. 67

A project, job or scheme is to be successively completed keeping quality & period of completion of the same as desired

Following data related to an estimate should be known to an estimator, while he prepares for electrical work project.

1. No. of points, half points, extra points be decided.
2. No. of circuits as per IE rules for wiring be taken care of.
3. Light & power circuits be separate as per rule.
4. Material schedule must be kept in mind.
5. Full knowledge of purchase system.
6. Wiring ^{rough} route to suit for the controls be decided.
7. What type of wiring methods can be selected.
8. Drawing be drawn so that proper estimation can be done.

Q 17

Polarization Index -

It is the ratio of IR value after 10 min to IR value after 1 min.

$$PI = \frac{IR \text{ after } 10 \text{ min}}{IR \text{ after } 1 \text{ min}}$$

PI test along with IR test is conducted on HV electrical machines to determine service condition of the insulation. Only measuring insulation resistance by megger may not always give the readable result, as the resistive value of an electrical insulator may also vary with temp. This difficulty is solved by introducing polarity index test.

Dielectric Absorption test -

It is ratio of IR value after 60 sec to IR value after 30 sec.

$$DAR = \frac{IR \text{ value after } 60 \text{ sec}}{IR \text{ value after } 30 \text{ sec}}$$

DAR is useful for recording information about insulation.

It is based on the absorption effect of good insulation compared to that of moist or contaminated insulation.

If DAR is below 1.25, it indicates poor insulation.

Q.27 Different maintenance strategies -

① Routine maintenance -

It is the overall daily maintenance of the machine to ensure stability of the machine.

② Preventive maintenance -

Main objective is to prevent the machine from burning out, damages or breakdown.

③ Planned maintenance -

This maintenance is carried out properly & regularly in order to prevent a machine from breaking down.

④ Condition based maintenance -

Maintenance performed based on known & expected behaviour, condition & the history of the machine. Condition based maintenance was introduced to maintenance the correct equipment at the right time.

⑤ Breakdown maintenance -

While failure of machine or breakdown in operation occurs due to serious electrical or mechanical fault, machine should be completely shut down immediately. This is breakdown maintenance.

This are the various maintenance strategies used while doing the maintenance of electrical machines.



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Department of Electronics & Telecommunication Engineering

SE Unit Test-I Schedule 2022-23, Sem-II

| Sr. No. | Subject | Day/Date | Time |
|---------|------------------------------------|----------------------|--------------------|
| 1. | Signals & Systems | Monday, 27/03/2023 | 08.30am to 09.30am |
| 2. | Control Systems | Tuesday, 28/03/2023 | 08.30am to 09.30am |
| 3. | Principles of Communication System | Thursday, 29/03/2023 | 08.30am to 09.30am |
| 4. | Object Oriented Programming | Friday, 30/03/2023 | 08.30am to 09.30am |

Mrs. Y. P. Lad

Exam Co-ordinator

Mr. S. B. Dhekale

DAC

Dr. S. B. Dhonde

HOD

Head

Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.



Department of Electronics & Telecommunication Engineering

TE(E&Tc) Unit Test-I Schedule 2022-23, Sem-II

| Sr. No. | Subject | Day/Date | Time |
|---------|---|-----------------------|--------------------|
| 1. | Cellular Networks | Wednesday, 08/03/2023 | 08.15am to 09.15am |
| 2. | Project Management | Thursday, 09/03/2023 | 08.15am to 09.15am |
| 3. | Power Devices & Circuits | Friday, 10/03/2023 | 08.15am to 09.15am |
| 4. | EL-II: Network Security/ Advanced Java Programming | Monday, 13/03/2023 | 08.15am to 09.15am |

Mrs. Y. P. Lad

Exam Co-ordinator

Mr. S. B. Dhekale

DAC

Dr. S. B. Dhonde

HOD

Head

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Department of Electronics & Telecommunication Engineering

BE(E&Tc) Unit Test-I Schedule 2022-23, Sem-II

| Sr. No. | Subject | Day/Date | Time |
|---------|----------------------------|-----------------------|--------------------|
| 1. | Fiber Optics Communication | Wednesday, 08/03/2023 | 08.15am to 09.15am |
| 2. | EL-5: Mobile Computing | Thursday, 09/03/2023 | 08.15am to 09.15am |
| 3. | EL-6: Digital Marketing | Friday, 10/03/2023 | 08.15am to 09.15am |

Mrs. Y. P. Lad

Exam Coordinator

Mr. S. B. Dhekale

DAC

Dr. S. B. Dhonde

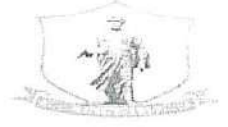
HOD

Head

Department of Electronics & Telecommunication Engineering
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Department of Electronics & Telecommunication Engineering

BE(Elex) Unit Test-I Schedule 2022-23, Sem-II

| Sr. No. | Subject | Day/Date | Time |
|---------|-------------------------|-----------------------|--------------------|
| 1. | Process Instrumentation | Wednesday, 08/03/2023 | 08.15am to 09.15am |
| 2. | EL-V | Thursday, 09/03/2023 | 08.15am to 09.15am |
| 3. | EL-VI | Friday, 10/03/2023 | 08.15am to 09.15am |

Mrs. Y. P. Lad

Exam Coordinator

Mr. S. B. Dhekale

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Dr. S. B. Dhonde

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**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE
DEPARTMENT OF: E & TC ENGINEERING**

UNIT TEST: I


| | |
|--|---|
| Class: BE- E & TC | AY: 2022-23 Term: II |
| Course: E & TC | Course Code: 404191 (E): Mobile Computing (Elective – V) |
| Time: 8.15 to 9.15 am , Date:09/03/2023 | Max. Marks: 30 |
| CO 1: Understand concepts of Mobile Communication | |
| CO 2: Analyze next generation Mobile Communication System | |

| Q. No. | Question | Marks | Cognitive Level |
|--------|--|-------|----------------------|
| Q1) | a) Classify Spread spectrum and explain Frequency Hop spread spectrum technology | 8 | Remember, Understand |
| | b) Comparison of SDMA, TDMA, FDMA, and CDMA mechanisms on the basis of idea, terminals, signal separation etc for cellular system | 7 | Understand, Apply |
| | OR | | |
| Q2) | a) Consider a slow FHSS system with m-ary FSK with number of bits per symbol =2, two symbol per hop & PN sequence generated output with binary message of 011011011000. The message is transmitted using following PN sequence with K=3 { 001 110 101 000 101} . Plot output of the system | 8 | Evaluate |
| | b) Explain the hidden and exposed terminal problem and Near far field problem in MAC? | 7 | Understand |
| Q3) | a) Explain about protocol architecture of GSM | 8 | Remember, Understand |
| | b) Explain about call forwarding in GSM | 7 | Understand, Apply |
| | OR | | |
| Q4) | a) State the features of 5G network and draw the 5G network Architecture | 8 | Remember, Understand |
| | b) Write a note on Mobility management in GSM | 7 | Understand |


**Course Teacher
Dr R R Itkarkar**


**Dept.
Academic Coordinator
Mr S B Dhekale**


**Module Coordinator
Mrs. Y P Lad**


**Head of Department
Dr S B Dhonde**

**ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE
DEPARTMENT OF: E&TC ENGINEERING**

UNIT TEST: I

Class: TE

AY: 2022-23 Term: II

Course: Cellular Network

Course Code: 304192

Time: 8.15 to 9.15

Max. Marks: 30

CO 1: Understand fundamentals of wireless communications.

CO 2: Discuss and study OFDM and MIMO concepts.

Mention Cognitive Level: Remember, Understand, Apply, Analyze, Evaluate, Create

| Q. No. | Question | Marks | Cognitive Level |
|--------|---|-------|-----------------|
| Q1) | a) Describe the term multipath fading. | 5 | Understand |
| | b) Compute the median loss at a distance $d=10$ Km when carrier frequency $f_c=6$ GHz, $h_t=40$ m, $h_r=2$ m for a large city if Hata model is used. | 5 | Apply |
| | c) Compute the noise power at $T=293$ K and noise figure = 5dB. The bandwidth = 25KHz. | 5 | Apply |
| | OR | | |
| Q2) | a) If a transmitter produces 50W of power, express the transmit power in units of a) dBm and b) dBW. If 50W is applied to a unity gain antenna with 900MHz carrier frequency, find the received power in dBm at a free space distance of 100m from the antenna. | 5 | Apply |
| | b) Compute the median loss at a distance $d=10$ Km when carrier frequency $f_c=2.1$ GHz, $h_t=40$ m, $h_r=2$ m for a small city if Hata model is used. | 5 | Apply |
| | c) Describe the relation between noise power at receiver and temperature. | 5 | Understand |
| Q3) | a) Explain in detail multicarrier modulation technique. | 5 | Understand |
| | b) Summarize the advantages and disadvantages of OFDM. | 5 | Understand |
| | c) Explain in short about Generations in Mobile communication. | 5 | Understand |
| | OR | | |
| Q4) | a) Draw and describe the block diagram the transmitter and receiver of multicarrier modulation. | 5 | Understand |
| | b) Describe with neat diagram OFDM technique. | 5 | Understand |
| | c) Explain advantages of 4G. | 5 | Understand |


Course Teacher


Module Coordinator


Dept.
Academic Coordinator

Head of Department

Date: 26/08/2022

Block No :

Room No. : 425

Time : 10 am to 12 pm

Sub :- Microcontrollers

| SR. NO. | ROLL NO. | NAME OF THE STUDENT | Signature | |
|---------|----------|------------------------------|------------------|----|
| 1 | 20ET041 | MORE DHIRAJ SHASHIKANT | <i>More</i> | 09 |
| 2 | 20ET042 | MORE SIDDHI SACHIN | <i>More</i> | 13 |
| 3 | 20ET043 | NANAWARE KETAKI SUBHASH | <i>Nanaware</i> | 09 |
| 4 | 20ET044 | PARKHE SAHIL SANJAY | <i>Sahil</i> | 12 |
| 5 | 20ET045 | PATIL NIRAJ SUNIL | <i>Patil</i> | 10 |
| 6 | 20ET046 | PATIL VISHWESHVAR SUBHASH | <i>Patil</i> | 07 |
| 7 | 20ET047 | PAWAR ADITYA SATYAWAN | <i>Pawar</i> | 11 |
| 8 | 20ET048 | RAJWEE PRASHANT WABLE | <i>Rajwade</i> | 22 |
| 9 | 20ET049 | RAVANGAVE YASH ESHWAR | <i>Yash</i> | 20 |
| 10 | 20ET050 | REDEKAR PRIYANKA SHAHAJI | <i>Redekar</i> | 19 |
| 11 | 20ET051 | SAGAR PRITI ANKUSH | <i>Sagar</i> | 13 |
| 12 | 20ET052 | SAHANI SHASHIRAJ BRIJBHUSHAN | <i>Sahani</i> | 13 |
| 13 | 20ET054 | SHAHAPURE PRATHAMESH YOGESH | <i>Pratham</i> | 12 |
| 14 | 20ET055 | SHAIKH ZEESHAN ALI | <i>Zeeshan</i> | 00 |
| 15 | 20ET056 | SHELAR YASHRAJ YUVARAJ | <i>Shelar</i> | 14 |
| 16 | 20ET057 | SHIKALGAR ATIF AHMADALI | <i>Shikalgar</i> | 10 |
| 17 | 20ET058 | SHINDE AISHWARYA SANJAY | <i>Shinde</i> | 04 |
| 18 | 20ET059 | SHINDE SAKSHI SURENDRA | <i>Shinde</i> | 12 |
| 19 | 20ET060 | SHIVARKAR SAMRUDDHI RUPESH | <i>Shivarkar</i> | 07 |
| 20 | 20ET061 | SIDDHESH VISHWASRAO BADGUJAR | <i>Siddhesh</i> | 11 |
| 21 | 20ET062 | SINGH SHRISTI RAISAHEB | <i>Singh</i> | 10 |
| 22 | 20ET063 | SONAR JOTSHNA PRAMOD | <i>Sonar</i> | 05 |
| 23 | 20ET064 | SUDHANSH DONGARE | <i>Sudhan</i> | 07 |
| 24 | 20ET065 | TANPURE OMKAR VITTHAL | <i>Tanpure</i> | 09 |
| 25 | 20ET067 | VYAWAHARE ATHARVA SUHAS | <i>Vyawahare</i> | 00 |
| 26 | 20ET068 | WALKE ABHISHEK JITENDRA | <i>Walke</i> | 09 |
| 27 | 20ET069 | ZINJURDE SHIVAM RAJENDRA | <i>Zinjurde</i> | 09 |
| 28 | 20ET201 | SURAJ SANJAY METE | <i>Suraj</i> | 05 |
| 29 | 21ET301 | ANVEKAR ATUL RAMESHWAR | <i>Anvekar</i> | 06 |
| 30 | 21ET302 | BANDARKAR VEDANT YASHWANT | <i>Bandarkar</i> | 01 |
| 31 | 21ET303 | JADHAV ANISH SANJAY | <i>Jadhav</i> | 06 |
| 32 | 21ET304 | KADAM PRITI TUKARAM | <i>Kadam</i> | 14 |
| 33 | 21ET305 | MAHAJAN OMKAR SANTOSH | <i>Mahajan</i> | 01 |
| 34 | 21ET306 | PAKALE OM | <i>Pakale</i> | 06 |
| 35 | 21ET307 | SASHTI SANIKA SHIVRAJ | <i>Sashti</i> | 17 |
| 36 | 21ET308 | SHERKHANE PRAMILA GANGARAM | <i>Sherkhane</i> | 00 |
| 37 | 21ET309 | TANDALE NITIN RAMESHWAR | <i>Tandale</i> | 07 |
| 38 | 21ET401 | PAWAR ABHAY SNJAY | <i>Pawar</i> | 00 |
| 39 | | | | |
| 40 | | | | |

Total Present student

38

Total Absent Student

- Nil -

Total Number of Student

38

Signature

Sr. Supervisor

[Signature]

Mr. N. P. Mawale

PPV

Date: 26/08/2022
Time: 6:30 am to 9 pmSub: - *Microcontroller*Block No: I
Room No: 417

| SR. NO. | ROLL NO. | NAME OF THE STUDENT | Signature | |
|---------|----------|---------------------------------|------------------|-------------|
| 1 | 19ET008 | BHOSKAR PRADNYA | <i>Pradnya</i> | 11 + 2 = 13 |
| 2 | 20ET001 | ANGRE DEVANG KISHOR | <i>Devang</i> | 12 + 2 = 14 |
| 3 | 20ET002 | ATHARVA VIJAY SHELKE | <i>A</i> | 18 |
| 4 | 20ET003 | ATKIRE AJAY VISHWAS | <i>A</i> | — |
| 5 | 20ET004 | BIRAJDAR VIRAKSHI SHIVALINGAPPA | <i>B</i> | 23 |
| 6 | 20ET005 | BODHE SHUBHAM GANESH | <i>A</i> | — |
| 7 | 20ET006 | BORAWAKE SOHAM DHANANJAY | <i>Soham</i> | 13 |
| 8 | 20ET008 | CHANDANE NUPUR SUNIL | <i>Nupur</i> | 12 |
| 9 | 20ET009 | CHOUDHARY PRAVEEN RATARAM | <i>Praveen</i> | 05 |
| 10 | 20ET010 | CHOUGALE SIDDHANT SURESH | <i>Siddhant</i> | 13 |
| 11 | 20ET011 | DADDI ANIKET GIRISH | <i>Aniket</i> | 11 |
| 12 | 20ET012 | DALAVE VAISHNAVI RAMESHRAO | <i>VAISHNAVI</i> | 15 |
| 13 | 20ET013 | DESAI PRANAV SANJAY | <i>P.D.</i> | 18 |
| 14 | 20ET014 | DESHPANDE VISHAL VIJAY | <i>A</i> | — |
| 15 | 20ET015 | DEVALE NIRANJAN NIVRUTTI | <i>Niranjan</i> | 00 |
| 16 | 20ET016 | DEVKATE YOGESH VINOD | <i>A</i> | — |
| 17 | 20ET017 | DHOPATE VEDANT ABHAY | <i>Vedant</i> | 13 |
| 18 | 20ET018 | GANDHI RISHI HEMANT | <i>Rishi</i> | 20 |
| 19 | 20ET019 | GHADGE SOHAN SUNIL | <i>A</i> | — |
| 20 | 20ET020 | GODASE OMKAR SANJAY | <i>Omkar</i> | 05 |
| 21 | 20ET021 | GOSWAMI ANIRUDDHA | <i>A</i> | — |
| 22 | 20ET022 | GUJAR ADITYA SANJAY | <i>AG</i> | 18 |
| 23 | 20ET023 | GUJAR MAITHILI RAJESH | <i>Maithili</i> | 10 |
| 24 | 20ET024 | HAPSE ATHARV SHASHANK | <i>A</i> | — |
| 25 | 20ET025 | HIRAVE AKSHAY DATTATRAY | <i>Akshay</i> | 08 |
| 26 | 20ET026 | JADHAV MANALI GOPAL | <i>A</i> | — |
| 27 | 20ET027 | JADHAV SHRADDHA HIRAMAN | <i>A</i> | — |
| 28 | 20ET028 | JAGTAP ANJALI MANIK | <i>Anjali</i> | 11 |
| 29 | 20ET029 | JANHVI SHENDRE | <i>Janhvi</i> | 05 |
| 30 | 20ET030 | JANJAL RUSHITA | <i>Rushita</i> | 16 |
| 31 | 20ET031 | KADAM ATHARVA ANAND | <i>Akshay</i> | 13 |
| 32 | 20ET032 | KADU VISHWAJA MANISH | <i>Manish</i> | 16 |
| 33 | 20ET033 | KAMBLE RUTHVIK RAVINDRA | <i>Ruthvik</i> | 18 |
| 34 | 20ET034 | KAWALE ARNAV HEMANT | <i>A</i> | — |
| 35 | 20ET035 | KAZI SAIFODDIN RAJIYODDIN | <i>Kazi</i> | 17 |
| 36 | 20ET036 | LONDHE GAURAV SANTOSH | <i>Gaurav</i> | 18 |
| 37 | 20ET037 | MANE MOHIT SANJAY | <i>Mohit</i> | 06 |
| 38 | 20ET038 | MARE KRISHNA BALAJI | <i>A</i> | — |
| 39 | 20ET039 | MOHD AQIB | <i>AQIB</i> | 07 |
| 40 | 20ET040 | MORE DEEPAJ BALASAHEB | <i>Deepraj</i> | 02 |

Total Present student

Total Absent Student

Total Number of Student

30
10
40Sign. of
SE Supervisor

S. A. Phelke

G4611
FC63



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Department of Mechanical Engineering

| UNIT TEST: II | | |
|---|--|-----------------------|
| Class: TE Mechanical | | AY: 2022-23 Term: II |
| Course: Composite Materials | | Course Code: 302052-A |
| Time: 1 Hour | Date: 27/04/2023 | Max. Marks: 30 |
| CO 1: CATEGORISE and APPLY Metal Matrix Process from possessions landscape. | | |
| CO 2: DETERMINE volume/weight fraction and strength of Composites. | | |
| Q. No. | Question | Marks |
| Q1) | a) Write typical reinforcements used in particle type metal matrix composites. | 07 |
| | b) Explain squeeze-casting process for fabricating metal matrix composites. | 08 |
| | OR | |
| Q2) | a) Give the broad categorization of processes for fabricating metal matrix composites | 07 |
| | b) Describe spray-forming process for fabricating metal matrix composites. | 08 |
| Q3) | a) Derive longitudinal and transverse Young's modulus of unidirectional composite. | 07 |
| | b) In a glass/epoxy composite, fibers are 55% by volume. The tensile strength and the Young's modulus of fibers are 1 GPa and 70 GPa respectively. The tensile strength and the Young's modulus of epoxy are 55 MPa and 3 GPa respectively. Calculate the tensile strength and the Young's modulus of the composite. | 08 |
| | OR | |
| Q4) | a) Compare isotropic and anisotropic materials. | 07 |
| | b) Carbon fibers (50% by volume) and polyimide matrix have the following properties. $E_f=280$ GPa, $E_m = 276$ MPa, $\nu_f=0.2$ and $\nu_m=0.3$. Compute (a) the elastic modulus in the fiber direction and transverse to fiber direction (b) the major and minor Poisson's ratios. | 08 |



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Department of Mechanical Engineering

UNIT TEST: II

| Class: TE Mechanical | | AY: 2022-23 Term: II | |
|---|----------|--|-------|
| Course: Composite Materials | | Course Code: 302052-A | |
| Time: 1 Hour | | Date: 04/2023 | |
| | | Max. Marks: 30 | |
| CO 1: CATEGORISE and APPLY Metal Matrix Process from possessions landscape. | | | |
| CO 2: DETERMINE volume/weight fraction and strength of Composites. | | | |
| Q. No. | Question | | Marks |
| Q1) | a) | Write typical reinforcements used in particle type metal matrix composites. <i>Names of reinforcement 3 marks</i> <i>simple sketches 3 marks</i> <i>one application 1 mark</i> | 07 |
| | b) | Explain squeeze-casting process for fabricating metal matrix composites. <i>Type of method 1 mark</i> <i>sketches 4 marks</i> <i>Explanation 3 marks</i> | 08 |
| OR | | | |
| Q2) | a) | Give the broad categorization of processes for fabricating metal matrix composites. <i>Categories 1 mark</i> <i>Classification 3 marks</i> <i>Explanation 3 marks</i> | 07 |
| | b) | Describe spray-forming process for fabricating metal matrix composites. <i>Type of method 1 mark</i> <i>sketches 4 marks</i> <i>Explanation 3 marks</i> | 08 |
| Q3) | a) | Derive longitudinal and transverse Young's modulus of unidirectional composite. <i>Definition of moduli 2 marks</i> <i>Modulus 12 marks</i> <i>Modulus 2 3 marks</i> | 07 |
| | b) | In a glass/epoxy composite, fibers are 55% by volume. The tensile strength and the Young's modulus of fibers are 1 GPa and 70 GPa respectively. The tensile strength and the Young's modulus of epoxy are 55 MPa and 3 GPa respectively. Calculate the tensile strength and the Young's modulus of the composite. <i>Formula of Young's modulus 2 marks</i> <i>Value of Young's modulus 2 marks</i> <i>Failure strain of fiber 2 marks</i> <i>Value of tensile strength 2 marks</i> | 08 |
| OR | | | |
| Q4) | a) | Compare isotropic and anisotropic materials. <i>3 points of difference 2 marks each</i> <i>Example of each material 1 mark</i> | 07 |
| | b) | Carbon fibers (50% by volume) and polyimide matrix have the following properties. $E_f=280$ GPa, $E_m=276$ MPa, $\nu_f=0.2$ and $\nu_m=0.3$. Compute (a) the elastic modulus in the fiber direction and transverse to fiber direction (b) the major and minor Poisson's ratios. <i>Formula of elastic moduli 2 marks</i> <i>Value of of elastic moduli 2 marks</i> <i>Major Poisson's ratio 2 marks</i> <i>Minor Poisson's ratio 2 marks</i> | 08 |



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Department of Mechanical Engineering

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UNIT TEST: II

Class: TE Mechanical

Course: Composite Materials

Time: 1 Hour

Date: 27/04/2023

AY: 2022-23 Term: II

Course Code: 302052-A

Max. Marks: 30

CO 1: CATEGORISE and APPLY Metal Matrix Process from possessions landscape.

CO 2: DETERMINE volume/weight fraction and strength of Composites.

| Q. No. | Question | Marks |
|--------|--|-------|
| Q1) | a) Classify the metal matrix composites based on various types of matrix and reinforcement materials. | 07 |
| | b) Explain powder metallurgy process for fabricating metal matrix composites. | 08 |
| | OR | |
| Q2) | a) Explain the rule of mixture with examples. | 07 |
| | b) Describe stir-casting process for fabricating metal matrix composites. | 08 |
| Q3) | a) Explain five ultimate strength parameters of a unidirectional composite lamina. | 07 |
| | b) For a unidirectional carbon/epoxy lamina, the constituent material properties are as follows: $E_{1f} = 375 \text{ GPa}$, $(\sigma_{1f}^T)_{ult} = 3000 \text{ MPa}$, $E_m = 3.6 \text{ GPa}$, $(\sigma_m^T)_{ult} = 72 \text{ MPa}$. Take volume fraction of fiber as 0.7. Find a) the ultimate tensile strength for a carbon/epoxy lamina. b) the minimum and critical fiber volume fraction. | 08 |
| | OR | |
| Q4) | a) Write note on tensile testing of unidirectional composites. | 07 |
| | b) For a unidirectional carbon/epoxy lamina, the constituent material properties are as follows: $E_{1f} = 240 \text{ GPa}$, $E_m = 3.6 \text{ GPa}$, $(\sigma_{2f}^T)_{ult} = 36 \text{ MPa}$, $(\sigma_m^T)_{ult} = 72 \text{ MPa}$. Verify that the transverse tensile strength of the lamina is same as the tensile strength of the matrix. Take the fiber volume fraction as 0.6. | 08 |



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Department of Mechanical Engineering

UNIT TEST: II

UNIT TEST: II

| | | | |
|--|-----------------------|---|--------------|
| Class: TE Mechanical | | AY: 2022-23 Term: II | |
| Course: Composite Materials | | Course Code: 302052-A | |
| Time: 1 Hour | Date: /04/2023 | Max. Marks: 30 | |
| CO 1: CATEGORISE and APPLY Metal Matrix Process from possessions landscape. | | | |
| CO 2: DETERMINE volume/weight fraction and strength of Composites. | | | |
| Q. No. | Question | | Marks |
| Q1) | a) | Classify the metal matrix composites based on various types of matrix and reinforcement materials. <i>Classification based on reinforcement 3 marks</i> <i>Classification based on matrix 3 marks</i> <i>one application each 1 mark</i> | 07 |
| | b) | Explain powder metallurgy process for fabricating metal matrix composites. <i>Type of method 1 mark, sketches 4 marks</i> <i>Explanation 3 marks</i> | 08 |
| OR | | | |
| Q2) | a) | Explain the rule of mixture with examples. <i>ROM for elastic moduli and density 4 marks</i> <i>Explanation 3 marks</i> | 07 |
| | b) | Describe stir-casting process for fabricating metal matrix composites. <i>Type of method 1 mark</i> <i>sketches 4 marks</i> <i>Explanation 3 marks</i> | 08 |
| Q3) | a) | Explain five ultimate strength parameters of a unidirectional composite lamina. <i>Definition of moduli 2 marks, Modulus 12 marks</i> <i>Modulus 2 3 marks</i> | 07 |
| | b) | For a unidirectional carbon/epoxy lamina, the constituent material properties are as follows: $E_{1f} = 375 \text{ GPa}$, $(\sigma_{1f}^T)_{Ult} = 3000 \text{ MPa}$, $E_m = 3.6 \text{ GPa}$, $(\sigma_m^T)_{Ult} = 72 \text{ MPa}$. Take volume fraction of fiber as 0.7. Find the ultimate tensile strength for a carbon/epoxy lamina and the minimum and critical fiber volume fraction. <i>Formula of ultimate tensile strength 2 marks</i> <i>Value of ultimate tensile strength 2 marks</i> <i>Formula of minimum volume fraction 2 marks</i> <i>Value of minimum volume fraction 2 marks</i> | 08 |
| OR | | | |
| Q4) | a) | Write note on tensile testing of unidirectional composites. <i>Objective of the test: 2 marks, Sketch: 2 marks, Explanation: 3 marks</i> | 07 |
| | b) | (a) For a unidirectional carbon/epoxy lamina, the constituent material properties are as follows: $E_{1f} = 240 \text{ GPa}$, $E_m = 3.6 \text{ GPa}$, $(\sigma_{2f}^T)_{Ult} = 36 \text{ MPa}$, $(\sigma_m^T)_{Ult} = 72 \text{ MPa}$. Verify that the transverse tensile strength of the lamina is same as the tensile strength of the matrix. Take the fiber volume fraction as 0.6. <i>Formula of elastic moduli 2 marks</i> <i>Value of of elastic moduli 2 marks</i> <i>Major Poisson's ratio 2 marks</i> <i>Minor Poisson's ratio 2 marks</i> | 08 |



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Department of Mechanical Engineering

Vision

Academic Year : 2022-23 (Term I)

Test : II

Class : TE Mechanical Subject: Composite Materials (302052-A)
Date : Saturday, May 13, 2023 Max Marks : 30

Mark list

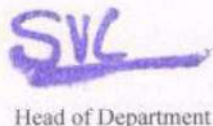
| Roll No | Name of the Student | Marks |
|---------|--------------------------------|-------|
| 19ME071 | Paipare Sahil Prakash | AB |
| 20ME002 | AHER KUNAL BALASAHEB | AB |
| 20ME003 | AKOLKAR HARSHAL | AB |
| 20ME004 | ALATE SHRIRAM VIJAY | 4 |
| 20ME005 | ALOK | AB |
| 20ME006 | AWAGHADE PRATHMESH VIJAY | AB |
| 20ME007 | AWASTHI HRUTIK CHETAN KUMAR | AB |
| 20ME008 | BHANDARE SUYASH BHAGWAN | 2 |
| 20ME012 | CHAVAN DIGVIJAY SURENDRA | AB |
| 20ME013 | DAHIBHATE OMKAR ANANT | AB |
| 20ME014 | DAREKAR SANKET AVINASH | AB |
| 20ME015 | DAYE SARTHAK RAVINDRA | AB |
| 20ME016 | DENGAL HARSHVARDHAN AJIT KUMAR | 0 |
| 20ME018 | DHEMBARE RANJITSINH DNYANDEO | AB |
| 20ME019 | DHOKNE AAYUSH MUKESH | AB |
| 20ME020 | DHUMAL DHIRAJ | AB |
| 20ME021 | GAGARE AARYAN | AB |
| 20ME022 | GORDE RUSHIKESH | AB |
| 20ME025 | GUDD ABHISHEK GANGADHAR | AB |
| 20ME026 | GULAMI HYDER ALI HASSAN ALI | AB |
| 20ME027 | GURAV SUDHANSHU SUHAS | 3 |
| 20ME028 | HARSH THAKUR | 7 |
| 20ME029 | HATKHAMBKAR ADVAIT SURENDRA | AB |
| 20ME030 | HORNE RUSHIKESH SHAILESH | AB |
| 20ME032 | JAGTAP HARSHAL | AB |
| 20ME033 | JALANDAR NIKITA GOPALSING | AB |
| 20ME034 | KALE SAURABH | AB |
| 20ME036 | KALE VAIBHAV | 1 |
| 20ME037 | KALE VISHWAJEET BALAJI | AB |
| 20ME039 | KALOKHE PRAJWAL DILIP | 2 |
| 20ME040 | KAMBLE ADITYA SANJAY | 2 |
| 20ME043 | KANADE HRITIK RAJENDRA | 7 |
| 20ME048 | KHANDAGALE SAURABH SANJAY | AB |
| 20ME049 | KHANDRE OMKAR JAYKUMAR | 7 |
| 20ME050 | KHATU ISHA SUDHIR | 2 |
| 20ME053 | KODNIKAR SARVESH UMESH | AB |
| 20ME056 | KULKARNI ATHARVA SUNIL | AB |
| 20ME057 | MAHAJAN AKSHAY | AB |
| 20ME058 | MAID NIKHIL SADASHIV | AB |

| | | |
|---------|------------------------------|----|
| 20ME061 | MORE KAUSHAL GULAB | AB |
| 20ME062 | MANTHAN MUKE | AB |
| 20ME063 | SEJAL SHANKAR MURKAL | AB |
| 20ME067 | PARKALE ABHISHEK RAJESH | 12 |
| 20ME068 | PARSURE PRALHAD NAGNATH | AB |
| 20ME069 | PATIL ALOK DEVIDAS | AB |
| 20ME070 | PATIL DHARMRAJ SHAMBHURAJE | AB |
| 20ME071 | PATIL PRATIK PRAVIN | 13 |
| 20ME075 | PATIL SUHANI SUNIL | AB |
| 20ME076 | PATIL YASHRAJ RAVINDRA | 15 |
| 20ME079 | PAWAR SUHAMI RANJIT | AB |
| 20ME081 | PEDNEKAR MRUNMAYEE RAVINDRA | AB |
| 20ME084 | RAGHUVANSHI VAIBHAV MUKUND | 8 |
| 20ME085 | RAJALE CHITRA DNYANDEO | AB |
| 20ME086 | ARYA SURESH RAJEBHOSALE | 11 |
| 20ME088 | RANE BHARGAV DEVENDRA | AB |
| 20ME089 | SALUNKE INDRAJIT MANOJ | AB |
| 20ME090 | SALVI NEEL SANTOSH | 7 |
| 20ME091 | SALVI TANVI YASHWANT | AB |
| 20ME092 | SANWARE YASH MANOHAR | AB |
| 20ME095 | SAWANT ATHARVA RAKESH | 10 |
| 20ME096 | SAWANT PREMKUMAR SANJAY | AB |
| 20ME097 | DEEPANJALI SHINDE | AB |
| 20ME098 | SHINDE KARTIKRAJE VISHNU | 9 |
| 20ME099 | SHINDE PARTH VIJAY | 11 |
| 20ME102 | SISODIYA SUSHANK MAHESHKUMAR | AB |
| 20ME103 | SUHANA SHAIKH | AB |
| 20ME104 | SUKALE RUTIK CHANDRAKANT | 9 |
| 20ME105 | OMKAR KIRAN SURYAWANSHI | AB |
| 20ME106 | GAURAV DEEPAK THORAT | 11 |
| 20ME107 | TODKAR ADITYA ATUL | 10 |
| 20ME108 | HINDAVI TODKAR | 12 |
| 20ME109 | TRIPUTE AMEYA SUBHASH | 13 |
| 20ME110 | TUPSANDE YASH SADASHIV | AB |
| 20ME116 | ZOPE MOHIT JAYANT | 11 |
| 21ME301 | BADVE RISHIKESH PRAVIN | AB |
| 21ME303 | CHAVALE TEJAS TANAJI | AB |
| 21ME305 | DESAI MAYURESH ARVIND | AB |
| 21ME307 | DHORE KSHITIJ VITTHAL | 2 |
| 21ME309 | GUND VISHVAJEET | AB |
| 21ME310 | INGALE HARSHAL VIJAY | AB |
| 21ME311 | JAGTAP SIDDHARTH ASHOK | AB |
| 21ME317 | KUSUMKAR RAHUL | AB |
| 21ME329 | SAMPATE UDDHAV MAHADEV | 5 |
| 21ME334 | HARSHWARDHAN JAGANNATH VEER | 11 |

Max Marks obtain : 15
 Total Number of Student 84
 Number of Students appeared 29
 Number of student absent 55
 Number of student passed 5
 % of Passing 17.24%


 Subject Teacher

Dept. Academic Coordinator


 Head of Department



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COLLEGE OF ENGINEERING

KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Yashraj Ravindra Patil Roll No. 20ME076
Subject Composite Material Division: TE Mech B
Examination Unit set II Day & Date: 27-4-23

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|----|---|---|---|---|---|---|---|---|----|-------------|
| Marks | 13 | — | 2 | — | — | — | — | — | — | — | 15 |

Examiner Signature

a) Metal matrix composite (MMCs) can be classified based on the type of matrix & reinforcement material used. ~~Some types of MMCs used classification~~ are:

1. Matrix Material:

Aluminum matrix composites ✓

Magnesium matrix composites ✓

Titanium matrix composites ✓

Nickel matrix composites ✓

Iron matrix composites ✓

2. Reinforcement material:

Ceramic matrix composites (CMCs)

Carbon matrix composites

Glass matrix composites (GMCs)

Metal matrix composites (MMCs) ✓

3. Type of Reinforcement:

Particulate reinforced composites, Fiber reinforced

4) Direction of Reinforcement:

Unidirectional Composites

Randomly oriented composites

Aligned Composites

- There can be many variations of MMCs depending on the specific combination of matrix & reinforcement materials, the manufacturing process used, & the desired properties of the composite material.

b. Powder metallurgy is widely used for fabrication of MMCs. The process involves the mixing of metal powders with reinforcement materials like ceramic particles, whisker or fibers, followed by compaction, sintering, & finishing operations. The reinforced material is uniformly dispersed throughout the matrix, resulting in a composite material with enhanced mechanical & physical properties.

• Steps involved in fabrication of MMCs:

1. Selection of MMCs: The first step in the powder metallurgy process is to select the matrix & reinforcement material.

2. Mixing of material: The metal powder metallurgy process is to select the matrix material & metal powder are mixed together in a ball mill or a high energy mill to ensure uniform distribution of reinforcement in matrix.

3. Compaction: The mixture is compacted under high pressure to form a green compact with desired shape & size. It can be done using a mechanical press or hydraulic press.

4. Sintering: The green compact is then sintered in a furnace at a temperature below the melting point of matrix. During sintering metal powder & matrix are bounded together.

5. Finishing: After sintering, the material is finished by machining, polishing, or coating to obtain the desired surface finish & dimensional accuracy.

- The powder metallurgy process can be optimized by controlling various parameters such as mixing time, compaction pressure, sintering temperature & time which affect quality of the final product.

Q.4

a. Tensile testing of unidirectional Composites:

- It is a commonly used method to determine the mechanical properties of unidirectional composites, which are composite materials made of continuous fibers in a single direction embedded by applying a tensile force to the specimen in the direction of the fibers & measuring the resulting deformation.
- During testing, the unidirectional composite specimen is gripped at both ends with testing machine & pulled apart at a constant rate of ~~deformation~~ deformation. The stress is calculated by dividing the force applied by cross sectional area.

2✓



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Department of Mechanical Engineering

S.E. Mechanical, Term I [2023-24]

Test: 1

SUBJECT: Solid Mechanics

Time: 01:00 pm to 02:00 pm

Date: 03/10/2023

Class: SE

Sub. Code: 202041

Max Marks: 30

Instructions to the candidates:

- Answer Q1. Or Q2. Q.3 Or Q.4
- Figures to the right indicate full marks.
- Assume suitable data, if necessary

CO1 (202041.1): DETERMINE various types of stresses and strain developed on determinate and indeterminate members.

CO2 (202041.2): DRAW Shear force and bending moment diagram for various types of transverse loading and support.

Unit 1

Q.1. A In a tensile test on steel tube of external diameter 18 mm and internal diameter 10 mm, an axial pull of 2 kN produces stretch of 0.72×10^{-3} mm in a length of 100 mm and lateral contraction of 3.62×10^{-3} mm in outer diameter. **Determine** the values of three Moduli and Poisson's ratio of material.

7

Q.1. B A steel circular bar has three segments as shown in Fig. 1. **Determine**

- the total elongation of the bar
- the length of the middle segment to have zero elongation of the bar. Take $E = 210 \text{ GPa}$.

8

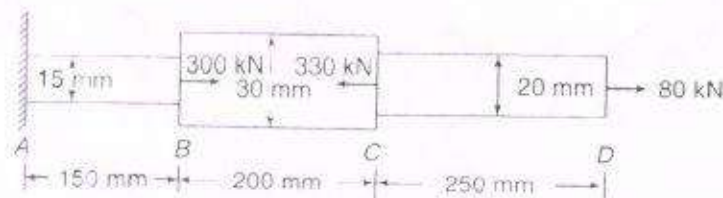


Fig. 1

OR

Q.2. A A rigid body AB weighing of 40 kN hangs from three wires of equal lengths as shown in Fig. 2. The middle wire is of steel and two outer wires are of copper. If cross-sectional area of each wire is 250 mm^2 . **Determine** load shared by each wire. Take $E_s = 210 \text{ GPa}$, $E_{cu} = 105 \text{ GPa}$.

7

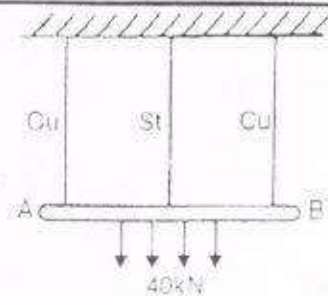


Fig. 2

- Q.2. B A steel tube of 30-mm outer diameter and 25-mm inner diameter encloses a gunmetal rod of 20-mm diameter and is rigidly joined at each end. If at a temperature of 40°C there is no longitudinal stress, **determine** the stresses developed in the rod and the tube when the temperature of the assembly is raised to 240°C . Take $\alpha = 12 \times 10^{-6}$ per $^{\circ}\text{C}$.

8

Unit 2

- Q.3. A A beam of 5 m long and simply supported at each end, has a uniformly distributed load of 1000 N/m extending from left end to the point 2 m away. There is also a clockwise couple of 1000 N-m applied at the center of the beam. **Draw** SF and BM diagram for the beam.

7

- Q.3. B **Draw** SF and BM diagram for the beam shown in Fig. 3 and **identify** the point of maximum bending moment.

8

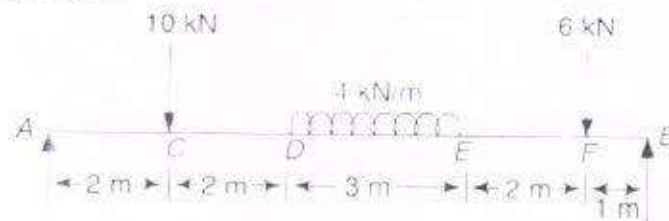


Fig. 3

OR

- Q.4. A A cantilever of 14-m span carrying loads is shown in Fig. 4. **Draw** the shear force and bending moment diagrams.

7

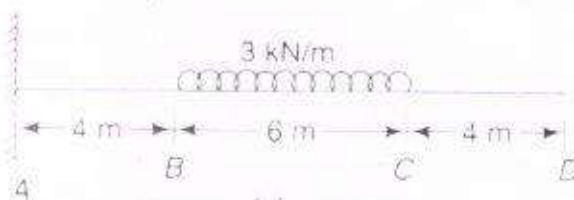


Fig. 4

- Q.4. B A simply supported beam of 7-m span with overhangs rests on supports as shown in Fig. 5. **Draw** the shear force and bending moment diagrams.

8

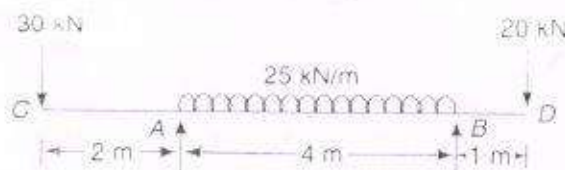


Fig. 5

Test: 1

SUBJECT: Solid Mechanics

Sub. Code: 202041

Unit 1

Q.E. A In a tensile test on steel tube of external diameter 18 mm and internal diameter 10 mm, an axial pull of 2 kN produces stretch of 6.72×10^{-3} mm in a length of 100 mm and lateral contraction of 3.62×10^{-4} mm in outer diameter. **Determine** the values of three Moduli and Poisson's ratio of material.

7

| | | |
|---------|--------------|-----------------|
| 1A | | |
| D | 18 | mm |
| d | 10 | mm |
| P | 2000 | N |
| delta_L | 6.72E-03 | |
| L | 100 | mm |
| delta_D | 3.62E-04 | |
| A | 175.9292 | mm ² |
| E | PL/A/delta_L | |
| | 169169.8 | Mpa |
| E | 169.1698 | GPa |
| v | 0.299272 | |
| G | 65.10174 | GPa |
| K | 140.4639 | GPa |

Q.E. B A steel circular bar has three segments as shown in Fig. 1. **Determine**

- the total elongation of the bar
- the length of the middle segment to have zero elongation of the bar. Take $E=210$ GPa.

8

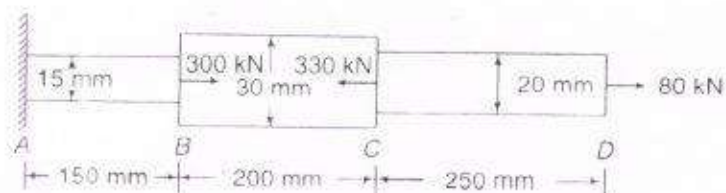


Fig. 1

| | | |
|--------------------------|------------|----|
| 1B | | |
| Total elongation | 0.16841806 | mm |
| Length of middle segment | 300 | mm |

- Q.2. A A rigid body AB weighing of 40 kN hangs from three wires of equal lengths as shown in Fig. 2. The middle wire is of steel and two outer wires are of copper. If cross-sectional area of each wire is 250 mm^2 . **Determine** load shared by each wire. Take $E_{st}=210 \text{ GPa}$, $E_{cu}=105 \text{ GPa}$.

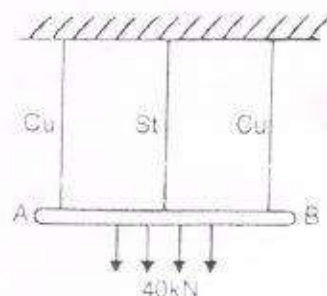


Fig. 2

P_St 20 kN

P_Cu 10 kN

- Q.2. B A steel tube of 30-mm outer diameter and 25-mm inner diameter encloses a gunmetal rod of 20-mm diameter and is rigidly joined at each end. If at a temperature of 40°C there is no longitudinal stress, **determine** the stresses developed in the rod and the tube when the temperature of the assembly is raised to 240°C . Take $\alpha_{st}=12 \times 10^{-6}$ per $^\circ\text{C}$, $\alpha_{gm}=18 \times 10^{-6}$ per $^\circ\text{C}$, $E_{st}=205 \text{ GPa}$ and $E_{gm}=92 \text{ GPa}$.

2B

A_St 215.984495 mm^2

A_Gm 314.159265 mm^2

0.0012

2.2585E-08

3.4599E-08

P 20984.8611 N

sigma_St 97.1591092 MPa

sigma_Gm 66.7968876 MPa

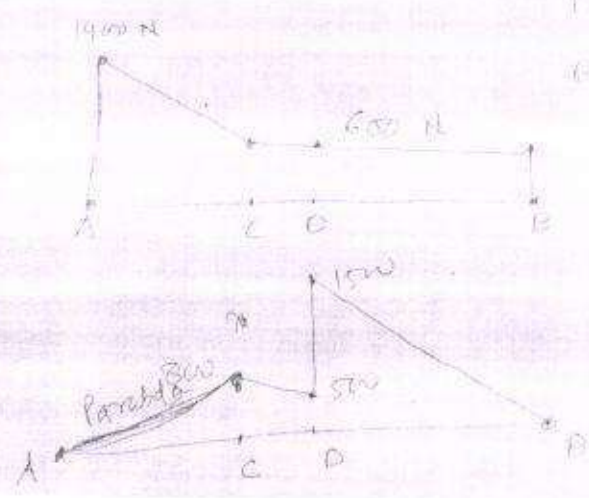
Unit 2

- Q.3. A A beam of 5-m long and simply supported at each end, has a uniformly distributed load of 1000 N/m extending from left end to the point 2 m away. There is also a clockwise couple of 1000 N-m applied at the center of the beam. **Draw** SF and BM diagram for the beam.

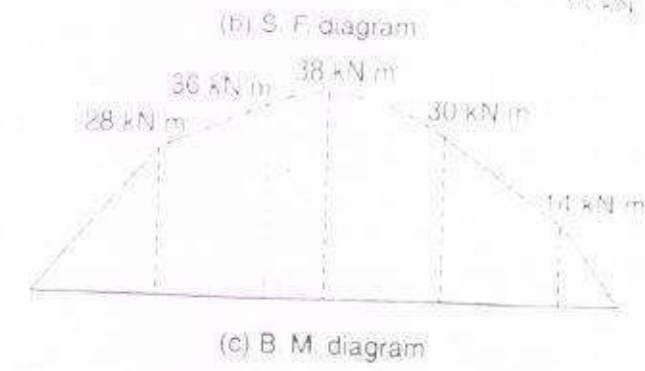
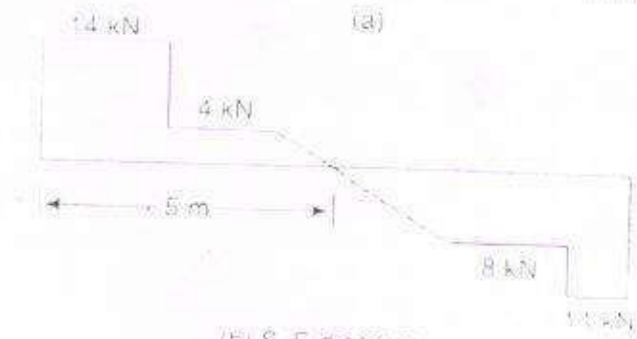
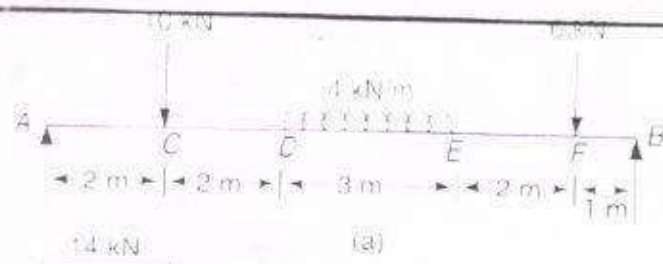
$\sum F_y = 0$
 $R_A + R_B = 14000$
 $R_A = 14000 - R_B$
 $\sum M_A = 0$
 $14000 \times 3 - R_B \times 6 = 0$
 $R_B = 7000$
 $R_A = 7000$

$A \rightarrow B$
 $C \rightarrow 600 \times 3 - 1000 = 800$
 $D \rightarrow 600 \times 3 - 1000 = 800$
 $B \rightarrow 0$

$A \leftarrow 14000$
 $C \leftarrow 800$
 $D \leftarrow 800$
 $B \leftarrow 0$



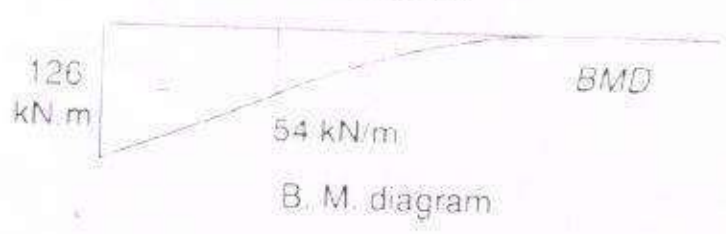
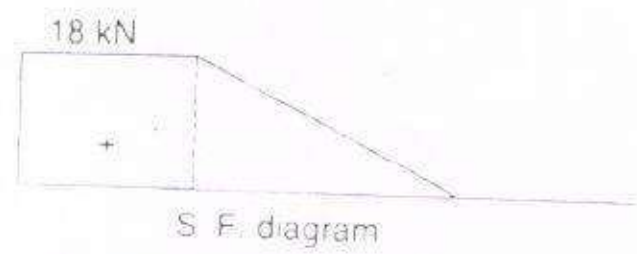
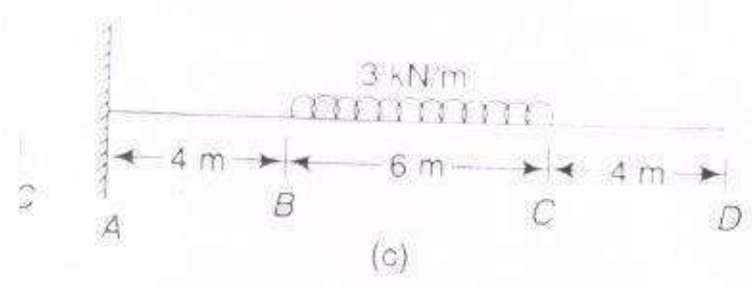
Q3. B Draw SF and BM diagram for the beam shown in Fig. 3 and identify the point of maximum bending moment.



OR

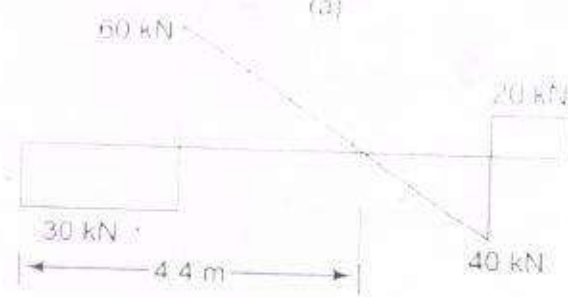
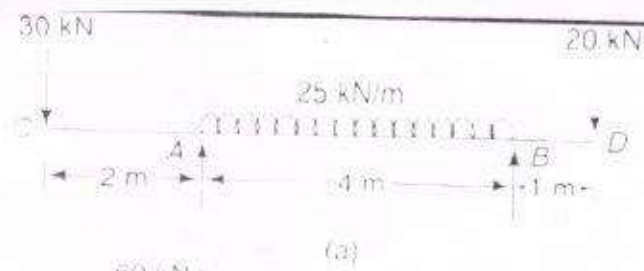
Q.4. A A cantilever of 14-m span carrying loads is shown in Fig. 4 Draw the shear force and bending moment diagrams.

7

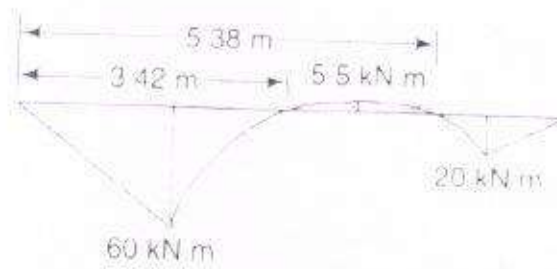


Q.4. B A simply supported beam of 7-m span with overhangs rests on supports as shown in Fig. 5. Draw the shear force and bending moment diagrams.

8



(b) S.F. diagram



(c) B.M. diagram



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Department of Mechanical Engineering
S.E. Mechanical, Term I [2023-24]

Test: 1

SUBJECT: Solid Mechanics

Time: 01:00 pm to 02:00 pm

Date: 03/10/2023

Class: SE

Sub. Code: 202041

Max Marks: 30

Instructions to the candidates:

- Answer Q1. Or Q2. Q.3 Or Q.4
- Figures to the right indicate full marks.
- Assume suitable data, if necessary

CO1 (202041.1): DETERMINE various types of stresses and strain developed on determinate and indeterminate members.

CO2 (202041.2): DRAW Shear force and bending moment diagram for various types of transverse loading and support.

Unit 1

Q.1. A In a tensile test on steel tube of external diameter 18 mm and internal diameter 10 mm, an axial pull of 2 kN produces stretch of 3.36×10^{-3} mm in a length of 100 mm and lateral contraction of 1.81×10^{-4} mm in outer diameter. **Determine** the values of three Moduli and Poisson's ratio of material.

7

Q.1. B A steel circular bar has three segments as shown in Fig. 1. **Determine**

- i) the total elongation of the bar
- ii) the length of the middle segment to have zero elongation of the bar. Take $E = 210$ GPa.

8

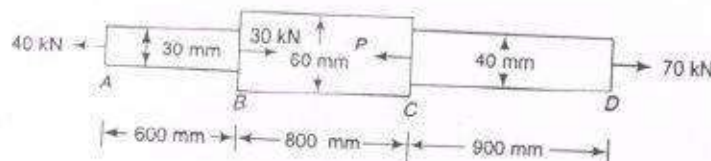
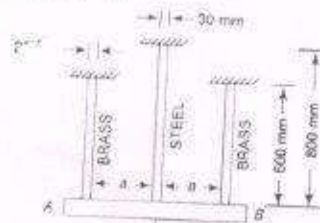


Fig. 1

OR

Q.2. A Three equally spaced rods in the same vertical plane support a rigid bar AB. Two outer rods are of brass, each 600 mm long and of 25 mm in diameter. The central rod is of steel that is 800 mm long and 30 mm in diameter. Determine the forces in the rods due to an applied load of 120 kN through the mid-point of the bar. The bar remains horizontal after the application of the load. Take $E_s/E_b = 2$.

7



- Q.2. B A steel tube of 30-mm outer diameter and 25-mm inner diameter encloses a gunmetal rod of 20-mm diameter and is rigidly joined at each end. If at a temperature of 40°C there is no longitudinal stress, **determine** the stresses developed in the rod and the tube when the temperature of the assembly is raised to 180°C . Take $\alpha = 12 \times 10^{-6}$ per $^{\circ}\text{C}$.

8

Unit 2

- Q.3. A A beam of 5 m long and simply supported at each end, has a uniformly distributed load of 1000 N/m extending from left end to the point 1.5 m away. There is also a clockwise couple of 1000 N-m applied at the center of the beam. **Draw SF and BM diagram for the beam.**
- Q.3. B **Draw SF and BM diagram for the beam shown in Fig. 3 and identify the point of maximum bending moment.**

8

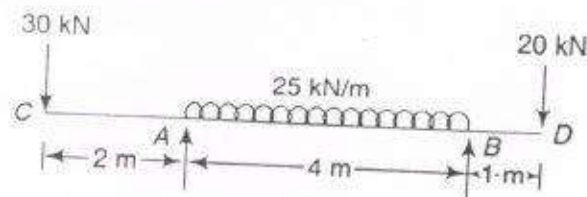


Fig. 3

OR

- Q.4. A A cantilever of 14-m span carrying loads is shown in Fig. 4. **Draw the shear force and bending moment diagrams.**

7

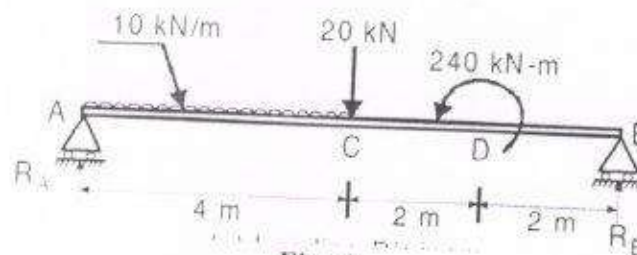


Fig. 4

- Q.4. B **Draw SF and BM diagram for the beam shown in Fig. 5 and identify the point of maximum bending moment.**

8

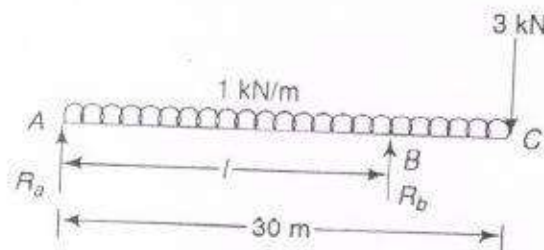


Fig. 5

Test: 1

SUBJECT: Solid Mechanics

Sub. Code: 202041

Unit 1

- Q.1. A In a tensile test on steel tube of external diameter 18 mm and internal diameter 10 mm, an axial pull of 2 kN produces stretch of 3.36×10^{-3} mm in a length of 100 mm and lateral contraction of 1.81×10^{-4} mm in outer diameter. **Determine** the values of three Moduli and Poisson's ratio of material.

7

| | | |
|---------|--------------|-----------------|
| 1A | | |
| D | 18 | mm |
| d | 10 | mm |
| P | 2000 | N |
| delta_L | 3.36E-03 | mm |
| L | 100 | mm |
| delta_D | 1.81E-04 | mm |
| A | 175.9292 | mm ² |
| E | PL/A/delta_L | |
| | 338339.6 | Mpa |
| E | 338.3396 | GPa |
| v | 0.299272 | |
| G | 130.2035 | GPa |
| K | 280.9278 | GPa |

- Q.1. B A steel circular bar has three segments as shown in Fig. 1. **Determine**

- the total elongation of the bar
- the length of the middle segment to have zero elongation of the bar. Take $E=210$ GPa.

8

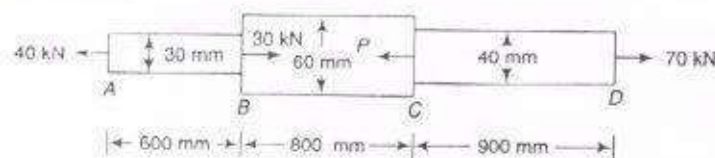


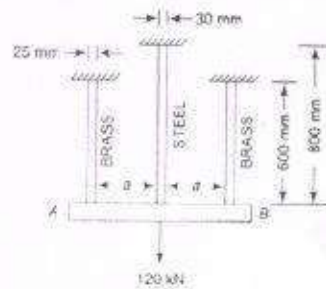
Fig. 1

| | | |
|--------------------------|--------|----|
| 1B | | |
| Total elongation | 0.4139 | mm |
| Length of middle segment | 300 | mm |

OR

- Q.2. A Three equally spaced rods in the same vertical plane support a rigid bar AB. Two outer

the application of the load. Take $E_s/E_b = 2$.



2A

P_St 62.3 kN

P_Br 28.84 kN

Q.2. B

A steel tube of 30-mm outer diameter and 25-mm inner diameter encloses a gunmetal rod of 20-mm diameter and is rigidly joined at each end. If at a temperature of 40°C there is no longitudinal stress, **determine** the stresses developed in the rod and the tube when the temperature of the assembly is raised to 240°C . Take $\alpha_{st} = 12 \times 10^{-6}$ per $^\circ\text{C}$, $\alpha_{gm} = 18 \times 10^{-6}$ per $^\circ\text{C}$, $E_{st} = 205$ GPa and $E_{gm} = 92$ GPa. 8

2B

A_St 215.984495 mm²

A_Gm 314.159265 mm²

0.0012

2.2585E-08

3.4599E-08

P 20984.8611 N

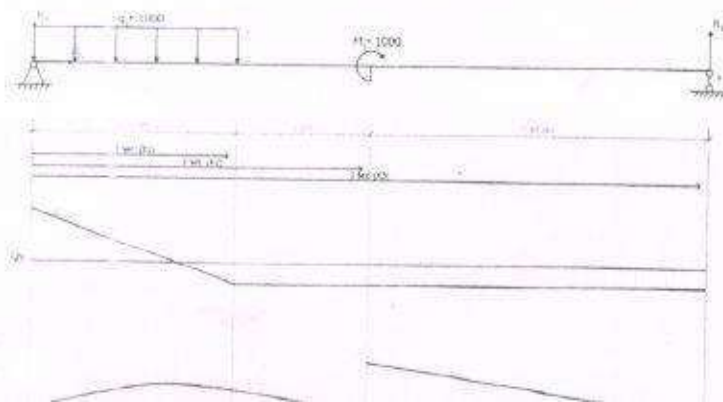
sigma_St 97.1591092 MPa

sigma_Gm 66.7968876 MPa

Unit 2

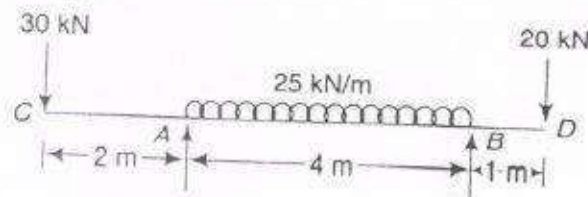
Q.3. A

A beam of 5 m long and simply supported at each end, has a uniformly distributed load of 1000 N/m extending from left end to the point 1.5 m away. There is also a clockwise couple of 1000 N-m applied at the center of the beam. **Draw** SF and BM diagram for the beam. 7

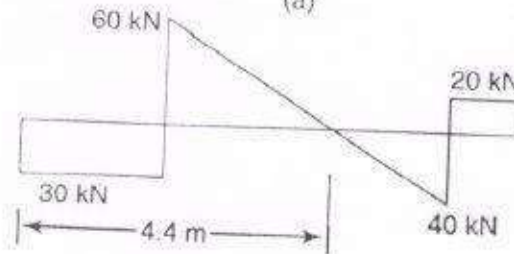


Q.3. B Draw SF and BM diagram for the beam shown in Fig. 3 and identify the point of maximum bending moment.

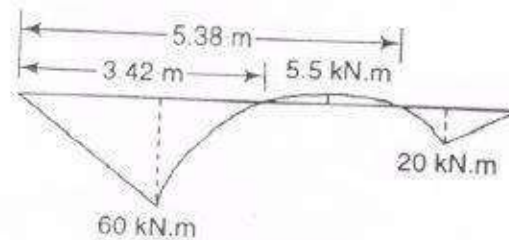
8



(a)



(b) S. F. diagram

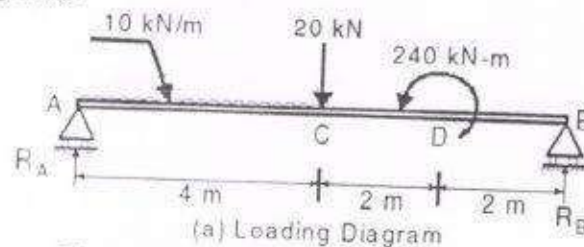


(c) B. M. diagram

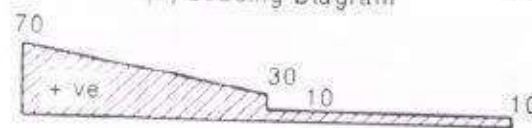
OR

Q.4. A A cantilever of 14-m span carrying loads is shown in Fig. 4. Draw the shear force and bending moment diagrams.

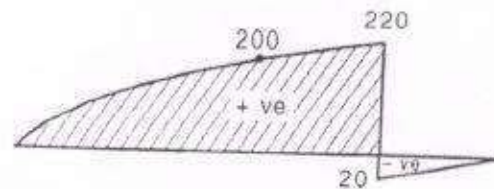
7



(a) Loading Diagram



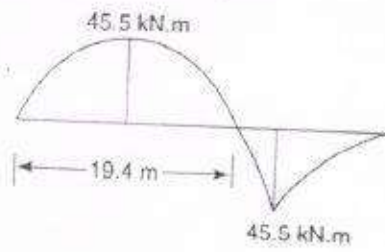
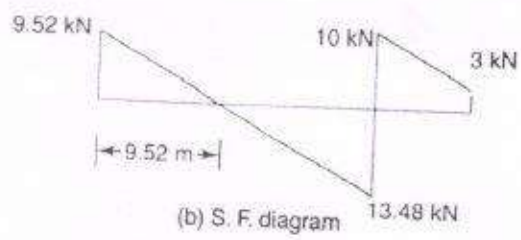
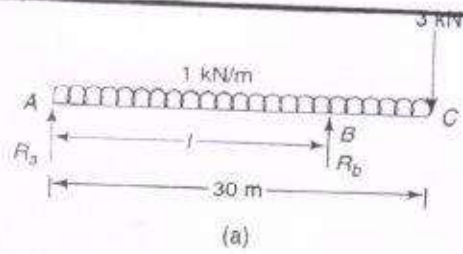
(b) SFD



(c) BMD

Q.4. B Draw SF and BM diagram for the beam shown in Fig. 5 and identify the point of maximum bending moment.

8





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COLLEGE OF ENGINEERING



Department of Mechanical Engineering

Vision

"To be recognized as a premier center in the field of Mechanical Engineering Education"

Academic Year : 2023-24 (Term I)

Unit Test : I

Room No: 419

Sub: Solid Mechanics

Class: SE (Mechanical) B

Date: 03.10.2023

Marks 30

Attendance list

| Sr No | Roll No | Name of the Student | Signature | Marks |
|-------|---------|---------------------------------|-------------|-------|
| 1 | 22ME070 | KIRVE MUGDHA KISHOR | [Signature] | 03 |
| 2 | 22ME072 | KULKARNI AKHILESH SUDHAKAR | [Signature] | 06 |
| 3 | 22ME073 | KULKARNI ATHARVA BHASKAR (TFWS) | [Signature] | 13 |
| 4 | 22ME074 | KULKARNI ATHARVA GAJANAN | [Signature] | 15 |
| 5 | 22ME075 | KULKARNI MANAS NIVAS | [Signature] | 07 |
| 6 | 22ME078 | KUSPE RAJESH AVINASH | [Signature] | 00 |
| 7 | 22ME079 | LANDE ANKIT VIJAY | [Signature] | 13 |
| 8 | 22ME080 | MANE SHIVAJI MOHAN (TFWS) | [Signature] | 12 |
| 9 | 22ME081 | MANE VIVEK ANIL | [Signature] | 08 |
| 10 | 22ME082 | MARATHE VARUN RAJIV (TFWS) | [Signature] | |
| 11 | 22ME083 | MATE VAISHNAVI DEEPCHAND | [Signature] | |
| 12 | 22ME084 | MATWANKAR MANAV DASHRATH | [Signature] | 15 |
| 13 | 22ME085 | NALAWADE ANUSHKA NAMDEO | [Signature] | 04 |
| 14 | 22ME086 | NANOTE AVANTI SUDHAKAR | [Signature] | 00 |
| 15 | 22ME088 | NIRGUDE JATIN AJIT | [Signature] | 02 |
| 16 | 22ME089 | OM MAHENDRA ABNAVE | [Signature] | 02 |
| 17 | 22ME090 | OTARI TANAYA RAHUL | [Signature] | 13 |
| 18 | 22ME091 | PARAKH AMAN SWAPNIL | [Signature] | 06 |
| 19 | 22ME093 | PARDESHI OM NITIN | [Signature] | 08 |
| 20 | 22ME094 | PATEL ARISH JAVED | [Signature] | |
| 21 | 22ME095 | PATIL AARYAN VIDYADHAR | [Signature] | 07 |
| 22 | 22ME096 | PATIL ABHAY SAHEBRAO | [Signature] | 02 |
| 23 | 22ME099 | PATIL SAMAR DHANRAJ | [Signature] | 03 |
| 24 | 22ME101 | PAWAR ABHIJEET BALU | [Signature] | |
| 25 | 22ME102 | PAWAR ATHARV DHANANJAY | [Signature] | |
| 26 | 22ME103 | PAWAR SARTHAK VIJAY | [Signature] | 03 |
| 27 | 22ME105 | PIMPARKAR SARANG PRAMOD | [Signature] | 04 |
| 28 | 22ME107 | SALUNKHE MIHIR DINESH | [Signature] | 05 |
| 29 | 22ME108 | SATAV KARTIK MEGHSHAM | [Signature] | 05 |
| 30 | 22ME109 | SAYED ABUBAKAR EJAJ | [Signature] | 05 |
| 31 | 22ME110 | SHAIKH MEHAK ALTAF | [Signature] | 06 |
| 32 | 22ME111 | SHEDGE VINAY VIVEK | [Signature] | |
| 33 | 22ME112 | SHINDE VASUDHA MAROTI | [Signature] | 10 |
| 34 | 22ME113 | SHITOLE JATIN VILAS | [Signature] | 00 |
| 35 | 22ME114 | SHIVRAJ SANJAY KADAM | [Signature] | 11 |
| 36 | 22ME116 | SONAWANE VAISHNAVI SUNIL | [Signature] | 17 |

Total No of students : 36

Total No of students Absent : 06

Total No of students Presents : 30

Name & Sign of

Jr supervisor

Dept. Academic Coordinator

Exam coordinator

Dr. Mani Sayyad



AISSMS

COLLEGE OF ENGINEERING

अभिज्ञान - अभियान शिक्षण
ACCREDITED BY AICTE WITH "A" GRADE



Department of Mechanical Engineering

Vision

"To be recognized as a premier center in the field of Mechanical Engineering Education"

Academic Year : 2023-24 (Term I)

Unit Test : I

Room No: 419

Sub: Solid Mechanics

Class : SE (Mechanical) B

Date : 09/10/2023

Marks 30

Attendance list

| Sr No | Roll No | Name of the Student | Signature | |
|-------|---------|--------------------------------|-----------|----|
| 37 | 22ME118 | SONKAMBLE MAYUR BHIMDEEP | Mayur | 05 |
| 38 | 22ME119 | SURSE PANKAJ SANJAY | AB | |
| 39 | 22ME120 | SUTHAR SAWAILAL SAVLARAM | Savilal | 13 |
| 40 | 22ME121 | TAMBE OM CHANDRAKANT | Om | 03 |
| 41 | 22ME122 | TARKASH SYNIAAN MUBASHIR (EWS) | Star | 04 |
| 42 | 22ME123 | TIGOTE OMKAR VIKRANT | Omkar | 14 |
| 43 | 22ME124 | UPADHYE ARIHANT SHANTINATH | Arihant | 11 |
| 44 | 22ME125 | WAGHMODE DIGVIJAY SHRIKRISHNA | Digvijay | 00 |
| 45 | 22ME126 | WAWARE ARYAN AJAY | Arya | 12 |
| 46 | 22ME127 | YASH BODADE | AB | |
| 47 | 23ME301 | AADITYA HARSHAL THORVE | Aditya | 00 |
| 48 | 23ME302 | ABHISHEK VIJAY GHATGE (EWS) | AB | 00 |
| 49 | 23ME303 | AMBATKAR SANKET SADANAND | AB | 00 |
| 50 | 23ME304 | AMEY YADAV | Amey | 09 |
| 51 | 23ME305 | BHOSALE BHAVESH JAYAVANTRAO | Bhavesh | 02 |
| 52 | 23ME306 | DESHMUKH KARTIK SATISH (EWS) | AB | 00 |
| 53 | 23ME307 | DIVYESH SHIRBHATE | AB | 11 |
| 54 | 23ME308 | GHODAKE TEJAS KAILAS | Tejas | 00 |
| 55 | 23ME309 | HIRE MITANSHU RAVINDRA (EWS) | Mitanshu | 00 |
| 56 | 23ME310 | JAMADAR MUJAMIL ABDUL | AB | |
| 57 | 23ME311 | KUNTE KARAN RENUBA | Kunte | 00 |
| 58 | 23ME312 | NIKAM JANHAVI DEVIDAS | Nikam | 05 |
| 59 | 23ME313 | PATIL AVISHKAR JAYAWANT | Patil | 02 |
| 60 | 23ME314 | SAMARTH MANE | Mane | 08 |
| 61 | 23ME315 | SASANE PRAJWALIT GAUTAM | Prajwalit | 02 |
| 62 | 23ME316 | SATYAM VINOD CHAUDHARI | Satyam | 03 |
| 63 | 23ME317 | SHENDGE TEJAS ASHOK | Tejas | |
| 64 | 23ME318 | SHILWANT PRAJAKTA VIJAYKUMAR | Shilwant | 12 |
| 65 | 23ME319 | SHINDE AJIT SANJAY | Ajit | 07 |
| 66 | 23ME320 | SHREYAS RAMAKANT CHAUDHARI | Shreyas | 12 |
| 67 | 23ME321 | SWAN MANISH RAJESHRAO | Manish | 01 |
| 68 | 23ME322 | VARAD GHULE | Varad | 00 |
| 69 | 23ME323 | YADAV RUCHI GOP VIRENDRA | Ruchi | 01 |
| 70 | 23ME324 | ZURANGE OM NISHANT | Om | |
| 71 | 23ME325 | ACHITPA VIKAS MANSURE | Achitpa | |

Total No of students : 34

Total No of students Absent : 08

Total No of students Present : 26

Name & Sign of

Jr supervisor

Dept. Academic Coordinator

Exam coordinator

Dr. M. M. Sayyad

AY 2023-24 1st sem

SE Mech B

Unit Test - I

Solid Mechanics

Marks - 30

3/10/2023

| Sl. No. | Roll No. | Name of student | Signature | Marks |
|---------|-------------------------|---------------------|------------------|-------|
| 1) | 22ME076 | Akhilesh Kulkarni | <u>Aksh</u> | 06 |
| 2) | 22ME078 | Rajesh kuspe | <u>RAK</u> | 07 |
| 3) | 22ME112 | Vasudhara Shinde | <u>VShinde</u> | 10 |
| 4) | 22ME110 | Manak A. Shaikh | <u>Manak M.</u> | 06 |
| 5) | 22ME109 | Abubakar Sayyid | <u>Abu</u> | 05 |
| 6) | 22ME029 | Ankit Vijay. Lunde | <u>Ankit</u> | 00 |
| 7) | 22MED2317 | Mujumdar Sumadev | <u>Mujumdar</u> | 00 |
| 8) | Susane Prajwal H Gautam | | <u>PHG</u> | 08 |
| 9) | MED2305 | Manish R. Swam | <u>Manish</u> | 12 |
| 10) | MED2304 | Avishkar J. Patil | <u>Patil</u> | 05 |
| 11) | 22MED70 | Mugdha Kinn | <u>Mugdha</u> | 03 |
| 12) | 22ME090 | Tanaya. Otari | <u>T. Otari</u> | 13 |
| 13) | 22ME084 | Manav Matwankar | <u>Manav</u> | 15 |
| 14) | 22ME123 | Omkar Tigote | <u>Omkar</u> | 14 |
| 15) | ME D2326 | Janhavi Nikam | <u>Janhavi</u> | 00 |
| 16) | ME D2301 | Ruchi Gop Yadav | <u>Ruchi</u> | 00 |
| 17) | MED2318 | Vorad R. Ghule | <u>Vorad</u> | 01 |
| 18) | MED2319 | Aaditya Thorve | <u>Aadi</u> | 03 |
| 19) | MED085 | Anushka Nalawade | <u>Anushka</u> | 04 |
| 20) | 22ME086 | Avanti Nanote | <u>Avanti</u> | 00 |
| 21) | 22ME073 | Atharva B. Kulkarni | <u>A. B. K.</u> | 13 |
| 22) | 22ME120 | Saurilal Sudhar | <u>Saurilal</u> | 13 |
| 23) | 22ME116 | Vaishnavi Sonawane | <u>Vaishnavi</u> | 17 |
| 24) | 22ME099 | Samrat Patil | <u>Samrat</u> | 03 |
| 25) | 22ME095 | Aaryan Patil | <u>Aaryan</u> | 07 |
| 26) | 22ME107 | Mihir Salunkhe | <u>Mihir</u> | |

3E Mech B

AY 2023-24 Term I

Unit Test - I

Solid Mechanics

Marks - 30

3/10/2023

| Gr. No. | Roll No. | Name of Student | Signature | Marks |
|---------|------------|----------------------|-----------|-------|
| 1. | ME-D2323 | Mitanshu R Hire | shir | 00 |
| 2. | ME-D2321 | Ajit S. Shinde | Shinde | 12 |
| 3. | ME-D2311 | Tees K. Ghodake | Ghodake | 11 |
| 4. | ME-D2306 | Satyam V. Chaudhari | Chaudhari | 02 |
| 5. | ME-D2315 | Shreyas R. Chaudhari | Sec | 07 |
| 6. | 22ME125 | Waghmode Digvijay S. | Digvijay | 00 |
| 7. | 22ME113 | Jatin V. Shitole | Shitole | 00 |
| 8. | 22ME114 | Shivraj S. Kadam | Kadam | 11 |
| 9. | 22ME107 | Mihir Salunkhe | Salunkhe | 05 |
| 10. | 22ME096 | Abhay S. Patil | AS Patil | 02 |
| 11. | 22ME118 | Mayur B. Sonkamble | Mayur | 05 |
| 12. | 22ME103 | Sarthak Pawar | Sarthak | 03 |
| 13. | 22ME105 | Sarang P. Pimparkar | Sarkar | 04 |
| 14. | 22ME093 | Om N. Pawdeshi | Pawdeshi | 08 |
| 15. | 22ME122 | Syngan M. Turkash | Star K | 04 |
| 16. | 22ME091 | Aman S. Parakh | Aman | 06 |
| 17. | 22ME082 | Varun R. Marathe | VM | 08 |
| 18. | 22ME075 | Manoj N. Kulkarni | JK | 15 |
| 19. | 22ME124 | Aritont. S. Upadhye | Asu | 11 |
| 20. | 22MED80 | Swingji Mane | Swingji | 13 |
| 21. | 22ME081 | Vivek Mane | Vivek | 12 |
| 22. | 22MED2320 | Abhishek Ghogale | AG | 00 |
| 23. | ME-D2312 | Bhavan Bhasore | Bhasore | 02 |
| 24. | 22ME108 | Karthik M. Satav | Satav | 05 |
| 25. | 22ME126 | Arjun A. Waware | Waware | 12 |
| 26. | 22ME121 | Tambe Om Chandrakant | Om | 03 |
| 27. | 23MED-2303 | Samarth Y. Mane | Samarth | 02 |
| 28. | MS-D2336 | Om N. Zurange | Ox | 01 |



COLLEGE OF ENGINEERING

KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Mane Shivaji Mohan Roll No.: 22ME080

Subject Solid Mechanics Division: SE MECH-B

Examination Unit test - I Day & Date: 03/10/2023

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | 8 | - | 5 | | | | | | | | 13 |

Examiner Signature

Q.1

A] Given :- $d_2 = 18 \text{ mm}$

$d_1 = 10 \text{ mm}$

$P = 2 \text{ kN}$

$\delta L = 3.36 \times 10^{-3} \text{ mm}$

$L = 100 \text{ mm}$

$\delta d = 1.81 \times 10^{-4} \text{ mm}$

To Find :- i) $\mu = ?$

ii) $E = ?$

iii) $G = ?$

iv) $K = ?$

Solution :-

$\mu = \text{Lateral strain}$

Linear strain

$\frac{\delta d}{d_1}$

$\frac{\delta d}{d_2}$

$$\mu = \frac{1.81 \times 10^{-4}}{18} \times \frac{100}{3.36 \times 10^{-3}}$$

$$\therefore \mu = 0.299$$

Here,

$$\delta L = \frac{PL}{AE}$$

$$E = \frac{PL}{A\delta L}$$

$$E = \frac{2 \times 10^3 \times 100}{\frac{\pi}{4} (18^2 - 10^2) \times 3.36 \times 10^{-3}}$$

$$\therefore E = 338.339 \text{ kN/mm}^2$$

From E & P relation, we get

$$E = 3K(1 - 2\mu)$$

$$K = \frac{E}{3(1 - 2\mu)}$$

$$K = \frac{338.339 \times 10^3}{3 \times (1 - 2 \times 0.299)}$$

$$\therefore K = 280.546 \text{ kN/mm}^2$$

$$E = 2G(1 + \mu)$$

$$G = \frac{E}{2(1 + \mu)}$$

$$G = \frac{338.339 \times 10^3}{2(1 + 0.299)}$$

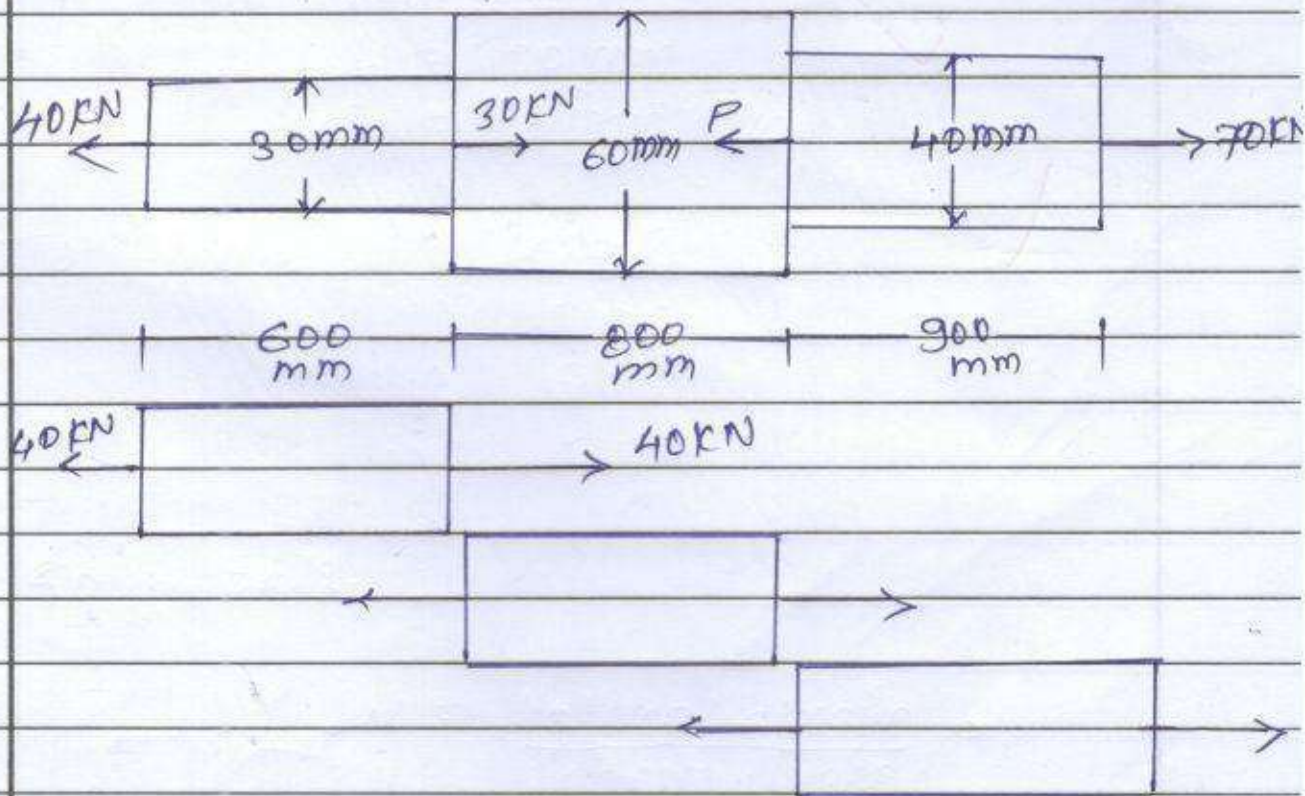
✓

$$\therefore G = 130.23 \text{ kN/mm}^2$$

B] Given:- $E = 210 \text{ GPa} = 210 \times 10^3 \text{ N/mm}^2$

To Find:- i) $\delta L = ?$

ii)



For Body (1) $\delta U = 0$

$$\delta L = \delta L_{AB} + \delta L_{BC} + \delta L_{CD}$$

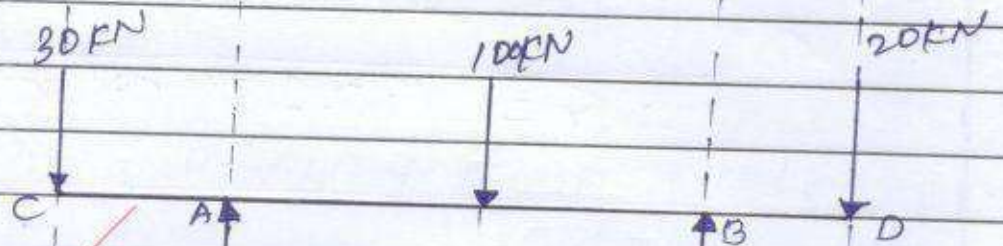
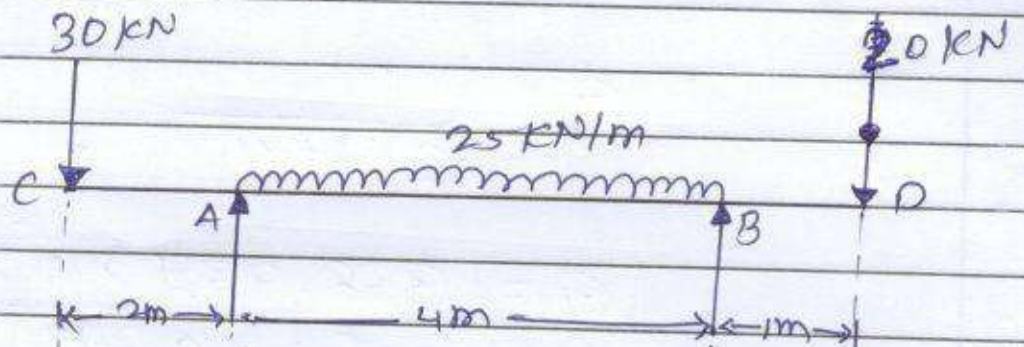
$$\delta L = \frac{PL}{AE} \bigg|_{AB} + \frac{PL}{AE} \bigg|_{BC} + \frac{PL}{AE} \bigg|_{CD}$$

$$\delta L = \frac{1}{E} \left[\left(\frac{PL}{A} \right)_{AB} + \left(\frac{PL}{A} \right)_{BC} + \left(\frac{PL}{A} \right)_{CD} \right]$$



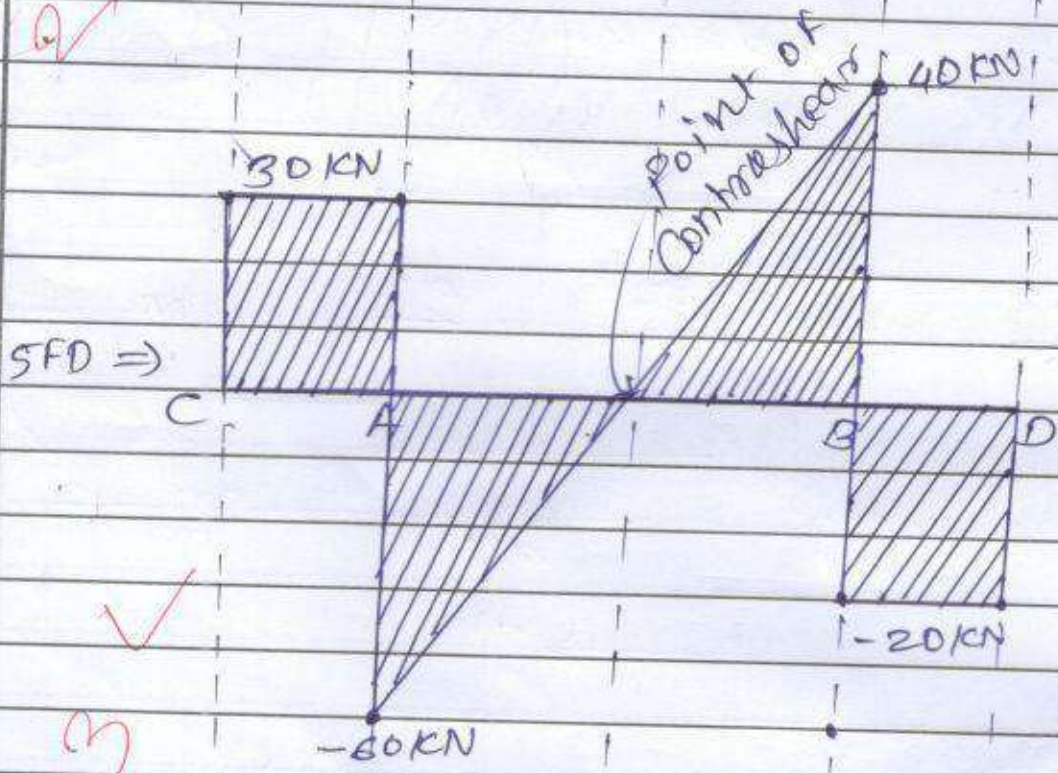
Q.3

B7



FBD \Rightarrow $R_A = 90 \text{ kN}$ $R_B = 60 \text{ kN}$

Q✓



✓

(M)

BMD \Rightarrow

$$R_A + R_B = 150 \text{ kN}$$

$$\sum M_A = 0 \Rightarrow -30 \times 2 + 2 \times 100 + 5 \times 20 = 4R_B$$

$$\therefore R_B = 60 \text{ kN}$$

$$\therefore R_A = 90 \text{ kN}$$

SF Calculation \rightarrow

$$\text{SF. Just B.C} = -30 + 90 - 100 + 60 - 20 = 0$$

$$\text{SF. Just A.C} = +90 - 100 + 60 - 20 = 30 \text{ kN}$$

$$\text{SF. Just B.A} = 90 - 100 + 60 - 20 = 30 \text{ kN}$$

$$\text{SF. Just A.A} = -100 + 60 - 20 = -60 \text{ kN}$$

$$\text{SF. Just B.B} = 60 - 20 = 40 \text{ kN}$$

$$\text{SF. Just A.B} = -20 \text{ kN}$$

$$\text{SF. Just B.D} = -20 \text{ kN}$$

$$\text{SF. Just A.D} = 0$$

BM Calculation \Rightarrow

$$\text{BM at A} = 2 \times 90 + 4 \times 100 - 6 \times 60 + 7 \times 20$$

Name Atharva B. Kulkarni

Roll No.:

22ME073Subject SM

Division:

Mech-BExamination Unit - I

Day & Date:

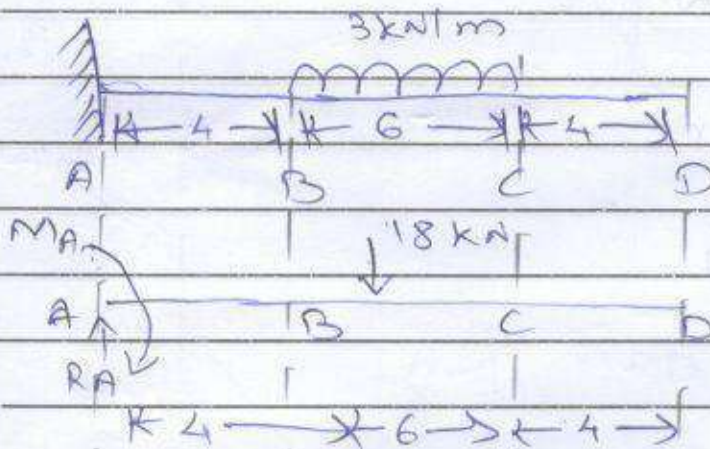
3-08-23

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|----|---|---|---|---|---|---|----|-------------|
| Marks | 1 | 1 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | |

Examiner Signature

2.4

A}



18 kN

18 kN

→ SF

2.5

A}

B

C

D

→ BM

A

B

C

D

$$\sum F_y = 0$$

$$R_A = 18 \text{ kN}$$

$$\sum M = 0$$

$$M_A = -18 \times 7$$

$$E M_A = 126 \text{ kN}\cdot\text{m}$$

SF calculation

$$J.B.A = 0 \text{ kN}$$

$$J.A.A = 18 \text{ kN}$$

$$J.B.B = 18 \text{ kN}$$

$$J.A.B = 18 \text{ kN}$$

$$J.B.C = 0 \text{ kN}$$

$$J.A.C = 0 \text{ kN}$$

$$J.B.D = 0 \text{ kN}$$

$$J.A.D = 0 \text{ kN}$$

BM calculation

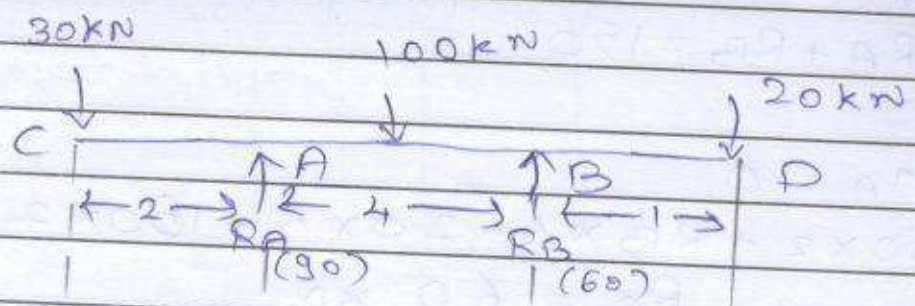
$$\text{BM at A} = 0 \text{ kNm}$$

$$\text{BM at B} = -18 \times 3 = -54 \text{ kNm}$$

$$\text{BM at C} = 0 \text{ kNm}$$

$$\text{BM at D} = 0 \text{ kNm}$$

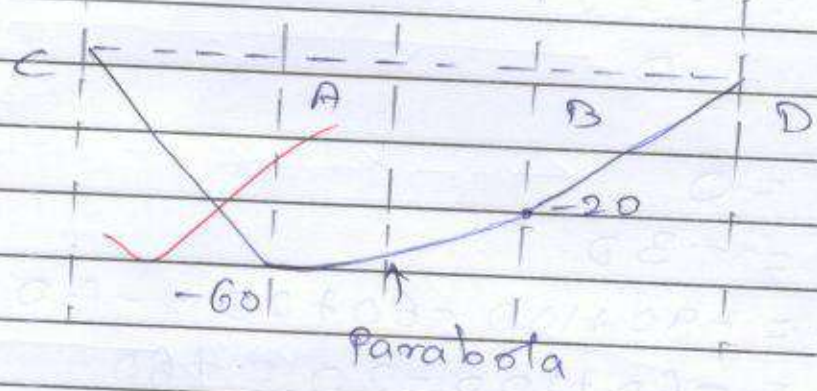
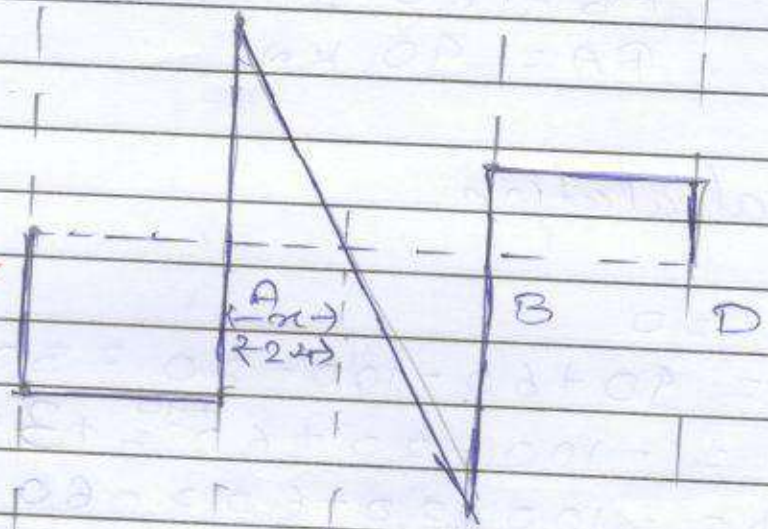
3
→



✓

3

✓



✓

$$\underline{\underline{x = 2.4}}$$

$$\sum F_x = 0 \quad (+\uparrow - \downarrow)$$

$$R_A + R_B = 150$$

$$\sum M_A = 0$$

$$30 \times 2 + R_B \times 4 - 20 \times 5 - 100 \times 2$$

$$R_B = 60 \text{ kN}$$

$$R_A = 90 \text{ kN}$$

SF calculation

$$J.B.C = 0$$

$$J.A.C = 90 + 60 - 100 - 20 = 30$$

$$J.B.A = -100 - 20 + 60^{+90} = +30$$

$$J.A.A = -100 - 20 + 60 = -60$$

$$J.B.B = 60 - 20 = +40$$

$$J.A.B = -20$$

$$J.B.D = -20$$

$$J.A.D = 0$$

$$J.B.C = 0$$

$$J.A.C = -30$$

$$J.B.A = -90 + 100 - 60 + 20 = -30$$

$$J.A.A = -60 + 100 - 20 = +20$$

$$J.B.B = -40$$

$$J.A.B = 20$$

$$J.B.D = 20$$

$$J.A.D = 0$$

BM calculation

$$\text{BM at C} = 0$$

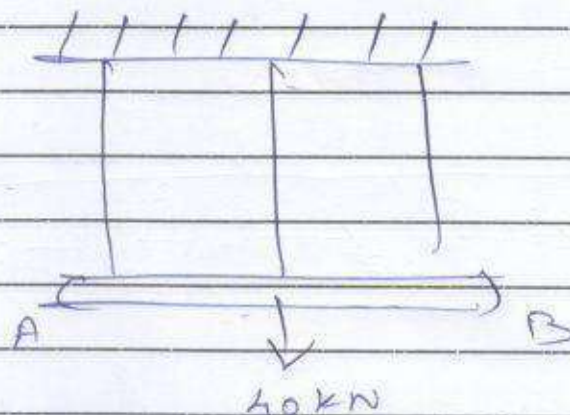
$$\text{BM at A} = -100 \times 2 + 60 \times 4 - 20 \times 5 = -6$$

$$\text{BM at B} = -20$$

Q.2

A}

→



Formula :-

$$\delta L = \frac{PL}{AE}$$

$$\delta L = \frac{40 \times 10^3 \times L}{250 \times 10^5 \times 10^3}$$

✓



COLLEGE OF ENGINEERING

KENNEDY ROAD, PUNE - 411 001.



Name Omkar Tigote

Roll No. 22ME123

Supervisor's Signature

Subject Solid Mechanics

Division: Mech B Batch C

Examination Unit Test

Day & Date: 3/10/23

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|-------------|
| Marks | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 14 |

Examiner Signature

Unit 1

Q1A

$$\delta L = 3.36 \times 10^{-3} \text{ mm}$$

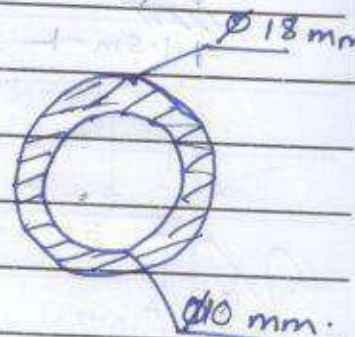
$$L = 100 \text{ mm}$$

$$P = 2 \text{ kN}$$

$$\delta d = 1.81 \times 10^{-4} \text{ mm}$$

$$\epsilon_{lin} = \frac{\delta L}{L} = \frac{3.36 \times 10^{-3}}{100} = 3.36 \times 10^{-5}$$

$$\sigma = \frac{P}{A} = \frac{2000}{\frac{\pi}{4} (18^2 - 10^2)} = 11.36 \text{ N/mm}^2$$



①

$$E = \frac{\sigma}{\epsilon_{lin}} = \frac{11.36 \text{ N/mm}^2}{3.36 \times 10^{-5}} = 338.09 \times 10^3 = 338.09 \text{ GPa}$$

$$\epsilon_{lat} = \frac{\delta d_{outer}}{d_{outer}} = \frac{1.81 \times 10^{-4}}{18} = 10.05 \times 10^{-6}$$

②

$$\therefore \frac{\epsilon_{lat}}{\epsilon_{lin}} = \frac{10.05 \times 10^{-6}}{3.36 \times 10^{-5}} = 0.29$$

$$E = 200 \text{ GPa}$$

$$G = 131042$$

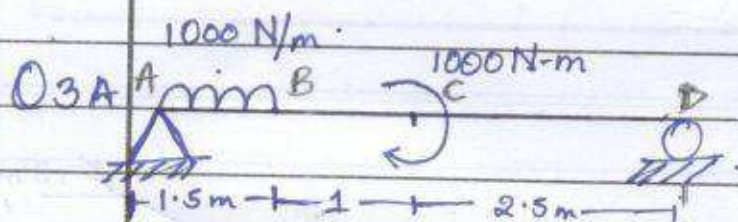
$$(3) \quad G = 131.04 \text{ GPa}$$

$$E = 3K(1-2\nu)$$

$$338.09 \times 10^3 = 3K(1-2(0.29))$$

$$(4) \quad K = 268.32 \text{ GPa}$$

Unit 2.



$$\sum F_y = 0 \Rightarrow R_A + R_D = 1500$$

$$\sum M_A = 0 \Rightarrow (R_D \times 5) - 1000 - (1500 \times 1.5) = 0$$

$$R_D = 425 \text{ N}$$

$$R_A = 1075 \text{ N}$$

SF Calculation

$$\text{SF Before A} = 0$$

$$\text{SF At A} = -425 + 1500 = 1075$$

$$\text{SF Before B} = -425 + 1500 = 1075$$

$$\text{SF At B} = -425$$

$$\text{SF Before C} = -425$$

$$\text{SF At C} = -425$$

$$\text{SF Before D} = -425 + 1075 = 425$$

$$\text{SF At D} = 0$$

$$n = 0.425$$

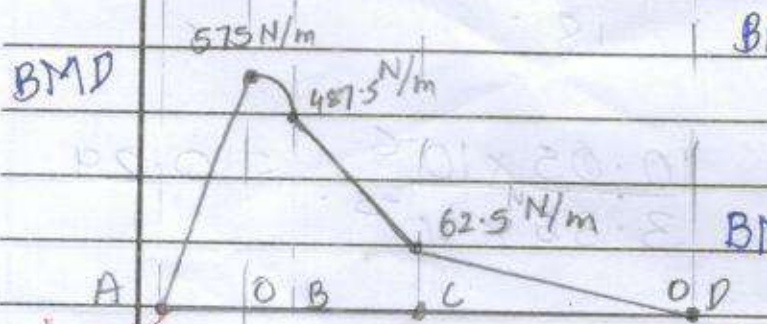
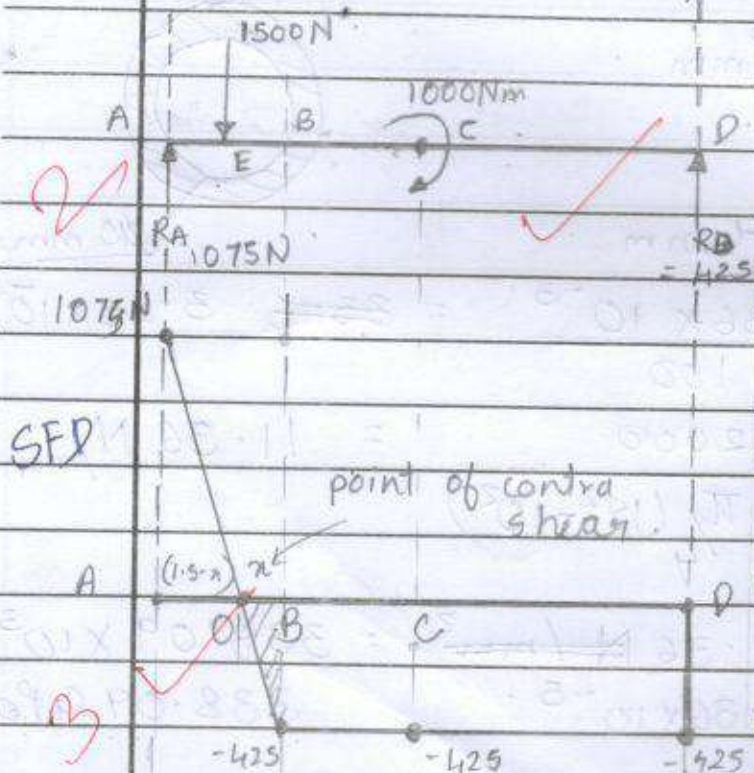
BM Calculation

$$\text{BM at A} = (425 \times 5) - 1000 - (1500 \times 0.75) = 0$$

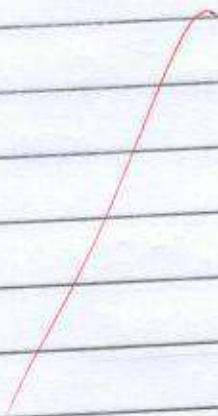
$$\text{BM at O} = (425 \times 3.92) - 1000 - (425 \times 1 \times 0.425) = 575 \text{ N/m}^2$$

$$\text{BM at B} = (425 \times 3.5) - 1000 = 487.5 \text{ N/m}$$

$$\text{BM Before C} = (425 \times 2.5) - 1000 = 62.5 \text{ N/m}$$



BM at $P = 0$





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Department of Mechanical Engineering

T.E. Mechanical/Mech. Sandwich, Term I [2022-23]

Test: 1

SUBJECT: Numerical & Statistical Methods

Sub. Code: 302041

Time: 1 Hour

Date : 22/08/2022

Class : TE Mech A&B and Mech Sand.

Max Marks: 30

Instructions to the candidates:

- Answer Q1. Or Q2. Q.3 Or Q.4
- Figures to the right indicate full marks.
- Assume suitable data , if necessary

CO1 (302041.1): Solve system of equations using direct and iterative numerical methods

CO2 (302041.2): Estimate solutions for differential equations using numerical techniques.

Unit 1

| | | |
|--------|--|---|
| Q.1. A | Draw the flowchart of Bi-section Method. | 7 |
| Q.1. B | Using Newton-Raphson Method and taking initial guess as zero. Find $x^3 - 5x + 3 = 0$. | 8 |
| OR | | |
| Q.2. A | Solve by Bisection method $3x = \cos x + 1$ correct up to three decimal places. | 7 |
| Q.2. B | Using Gauss Seidel method, solve the following set of simultaneous equations up to 3 decimal places. $x + 2y + z = 0$; $3x + y - z = 0$; $x - y + 4z = 3$ | 8 |

Unit 2

| | | |
|--------|---|---|
| Q.3. A | Solve the Laplace equation $\frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^2} = 1$ for the square mesh as shown in figure | 7 |
| | | |
| Q.3. B | Use Euler's method with $h = 0.5$ to solve the initial value problem over the interval $x = 0$ to 2 . $\frac{dy}{dx} = yx^2 - 1.1y$; where $y(0) = 1$ | 8 |
| OR | | |
| Q.4. A | Use Runge Kutta method of fourth order to obtain the numerical solution of $\frac{dy}{dx} = \sqrt{x^2 + y}$. Find y at $x = 0.4$, given $y(0) = 1$, take $h = 0.2$. | 7 |
| Q.4. B | Determine the solution of $\frac{dy}{dx} = 3x + y^2$ using Taylor's series method. Given $y(0) = 1$. Determine $y(0.1)$. | 8 |



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Department of Mechanical Engineering

Vision

"To be recognized as a premier center in the field of Mechanical Engineering

Academic Year : 2022-23 (Term I)

Test : I

| | | | |
|---------|------------------------|-------------|---|
| Class : | TE Mechanical Sandwich | Subject: | Numerical & Statistical Methods (302041) |
| Date : | Monday, May 02, 2022 | Max Marks : | 30 |

Mark list

| Roll No | Name of the Student | Marks |
|---------|---------------------------|--------|
| 20MS001 | AGRAWAL JAY GANESH | 2 |
| 19MS031 | ATUL BALU LOKHANDE | ABSENT |
| 21MS301 | BHOI BHAVESH SUNIL | 4 |
| 20MS002 | BHONSLE KARAN HAMBIR | 0 |
| 20MS003 | BHOSALE JAYESH DATTATRAY | 3 |
| 20MS004 | BUUNDELE PRERNAA DINESH | 0 |
| 21MS302 | CHAUDHARI DEVENDRA ANIL | 7 |
| 21MS303 | CHAUDHARI MOHAN DATTATRAY | 17 |
| 21MS304 | CHAUDHARI ROHIT PRAMOD | 10 |
| 21MS305 | CHAUDHARI SHALEM NARESH | 1 |
| 20MS005 | CHOUDHARI KAILASH SOMARAM | 0 |
| 21MS306 | CHOURE RAMHARI ASARAM | 5 |
| 20MS006 | DAKLIYA YASH PRASHANT | 9 |
| 21MS307 | DALE PRASHANT DILIPRAO | 8 |
| 21MS308 | DATE DHANANJAY VILAS | 18 |
| 21MS309 | DESHMUKH ATHANG VIVEK | 14 |
| 21MS310 | GAIKWAD TEJAS SHAILENDRA | ABSENT |
| 21MS311 | GARODI KUNAL NAMDEO | 1 |
| 21MS312 | GHODERAU SHUBHAM ANIL | 0 |

| | | |
|---------|---------------------------------|--------|
| 21MS313 | GORAD SAURAV GORAKSHANATH | 3 |
| 21MS314 | GUGALE YASH SANDIP | 5 |
| 20MS007 | GUJARATHI GAURANG PANKAJ | 0 |
| 21MS315 | HATTARGE ABHISHEK ANIL | 12 |
| 20MS008 | HATTEKAR NIKHIL ABHAY | 11 |
| 21MS316 | HINGANE SHUBHAM VIKAS | 15 |
| 20MS009 | INGALE ASAWARI DINKAR | 12 |
| 20MS010 | IRALE SUMEET SURESH | 0 |
| 20MS011 | JADHAV SHANTANU SANJAY | 10 |
| 20MS012 | JADHAV SHASHWAT SHIVAJI | 2 |
| 20MS013 | JAKAPURE SHIVSHANKAR SURESH | 0 |
| 20MS014 | KADAM KRISHNA BALASAHEB | 0 |
| 21MS317 | KADAM SIDDHANT SACHIN | 0 |
| 21MS318 | KALE MANSI ULHAS | 3 |
| 21MS319 | KARANJKAR ADITI RAMCHANDRA | 2 |
| 20MS015 | KHARKAR PUSHPANJAY HEMKANT | 1 |
| 21MS320 | KHATIB AFRID FIROJ | 0 |
| 21MS321 | KSHIRSAGAR SHARVARI MADHUKAR | 7 |
| 20MS016 | KULKARNI ABHISHEK PRASHANT | 8 |
| 20MS017 | LATE PRATHAMESH GIRISH | 9 |
| 21MS322 | LIMKAR SHAUNAK PRASHAANT | 2 |
| 21MS323 | LONARI ROHIT SHANKAR | 9 |
| 21MS324 | MAGARE OM SHIRISH | 0 |
| 21MS325 | MALEKAR SARVESH DEEPAK | ABSENT |
| 20MS018 | MANDALE ADITYA UMESH | ABSENT |
| 21MS326 | MANE MANASI NARENDRA | ABSENT |
| 20MS019 | MHASKE CHAITANYA MILIND | ABSENT |
| 21MS327 | MUJAWAR MAHAMMADSAIF JAKIRHUSEN | 4 |
| 21MS328 | PALANGE ATHARVA PRADEEP | 7 |
| 21MS329 | PALIWAL SHEETAL SACHIN | 0 |
| 20MS020 | PALVE VEDANT CHANDRAKANT | 0 |
| 21MS330 | PANCHAL MAROTI DNYANOBA | 5 |
| 20MS021 | PATEL YASH JAYANT | 17 |
| 21MS331 | PATIL ADITYA AJAY | 15 |
| 21MS332 | PATIL KANISHK SHARAD | 2 |
| 20MS022 | PATIL PARTH DINKARRAO | ABSENT |

| | | |
|---------|--------------------------|--------|
| 21MS333 | PATIL PRAGATI UDAY | 11 |
| 21MS334 | PATIL RAJ KIRAN | 0 |
| 20MS023 | PATIL SIDDHESH MAHESH | 0 |
| 20MS024 | PATIL YASH DIPAK | ABSENT |
| 21MS335 | PAWASKAR MAYURESH KISHOR | 6 |
| 20MS025 | PIMPLE MALHAR AJIT | 7 |
| 21MS336 | POMAN PRACHIT PRAVIN | ABSENT |
| 21MS337 | RANE VISHAL PRAKASH | 0 |
| 21MS338 | SABALE PRAHLAD GAUTAM | 19 |
| 21MS339 | SHINDE SANDHYA DHARMRAJ | 20 |
| 20MS026 | SHINDE YOGADA SANTOSH | ABSENT |
| 20MS027 | SHIRODKAR ATHARWA SUHAS | 2 |
| 21MS340 | SONAWANE GANESH NIMBA | 16 |
| 20MS028 | SONAWANI PARTH SANJAY | ABSENT |
| 21MS341 | SONDKAR SHWETA AMOL | 2 |
| 21MS342 | SUTAR OMKAR BHARAT | 2 |
| 21MS343 | TAKLE ANUJ BALASAHEB | 8 |
| 21MS344 | TILEKAR CHETAN NANDKUMAR | 8 |
| 20MS029 | URKUDE NIRANJAN JITENDRA | 4 |
| 20MS030 | UTTEKAR ARYESH DHIRAJ | 3 |
| 21MS345 | WAGHMARE SHUBHAM SANDIP | 2 |
| 20MS031 | WELDE PARTH JAGDISH | 1 |
| 20MS032 | YEVATEKAR YASH MUKUND | 2 |

Max Marks obtain : 20
 Total Number of Student 78
 Number of Students appeared 67
 Number of student absent 11
 Number of student passed 9
 % of Passing 13.4%


 Subject Teacher

Dept. Academic Coordinator


 Head of Department



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KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Sandhya Dharmraj Shinde

Roll No.: 21M5039

Subject Numerical + Statistical Method

Division: Mech Sand.

Examination Class Test - 01

Day & Date: Monday 22 Aug 2022

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|---|---|-------------|
| Marks | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 20 |

Examiner Signature

NSM: An

UNIT 01

1) B) find $x^3 - 5x + 3 = 0$
 $x = 0$ $n = 3$

Step I
 $y' = 3x^2 - 5x + 3 = 3$
 $y'' = 3x^2 - 5 = -5$ $F'(0) = -5$
 $y''' = 6x = 0$ $F''(0) = 0$

Iteration 3
 $x_2 = x_1 = 0.65510$
 $F(x) = 0.0066$
 $F'(x) = -3.710$
 $x_2 = 0.65566$

$x_1 = \frac{F(x) - F'(x)}{[F'(x)]^2}$
 $= \frac{3 \times 0}{-5} = 0 < 1$

0.8 $x_2 = x_1 - \frac{F(x)}{F'(x)} = 0.6$

Accuracy $|0.6 - 0.1|$
 $= 0.6$

Iteration 2
 $x_1 = 0.6$
 $F(x) = 0.216$
 $F'(x) = -3.92$
 $x_2 = 0.6 - \frac{0.216}{-3.92} = 0.65510$

Q 3.8 Euler's Method:

$$x = 0 \text{ to } 2, \quad h = 0.5$$

$$\text{i.e. } x_0 = 0 \quad x_9 = 2$$

$$\frac{dy}{dx} = 4x^2 - 1.1y$$

$$\text{where } y(0) = 1$$

Step I

$$n = \frac{x_9 - x_0}{h}$$

$$= \frac{2 - 0}{0.5}$$

$$n = 4$$

Iteration 1 $x_0 = 0$

$$y_0 = 1 \quad y_1 = ? \text{ at } x = 0.5$$

$$f(x_0, y_0) = \text{h.f.}$$

$$4x_0^2 - 1.1y$$

$$= 1 + (0.5)^2 - 1.1 \times 1$$

$$f(x_0, y_0) = -1.1$$

$$y_1 = y_0 + hf(x_0, y_0)$$

$$= 1 + 0.5 \times (-1.1)$$

$$y_1 = 0.45$$

Iteration 2 $x_0 = 0.5$

$$y_2 = ? \text{ at } x_2 = 1$$

$$y_1 = 0.45$$

$$f(x_1, y_1) =$$

$$4x_1^2 - 1.1y_1$$

$$= 0.45 \times (0.5)^2 - 1.1 \times 0.45$$

$$= -0.3825$$

$$y_2 = y_1 + hf(x_1, y_1)$$

$$= 0.45 + 0.5 \times (-0.3825)$$

$$y_2 = 0.25875$$

Iteration 3 $x_0 = 1$ $y_3 = ?$ at $x_2 = 1.5$
 $y_2 = 0.25875$

$$\begin{aligned} F(x_2, y_2) &= y_2(x_0)^2 - 1.1 y_2 \\ &= 0.25875 (1)^2 - 1.1 \times 0.25875 \\ &= -0.025875 \end{aligned}$$

$$\begin{aligned} y''' &= y_2 + hF(x_2, y_2) \\ &= 0.25875 + 0.5 \times (-0.025875) \\ &= 0.245815 \end{aligned}$$

Iteration 4 $x_0 = 1.5$ $y_4 = ?$ $x_4 = 2$
 $y_3 = 0.245815$

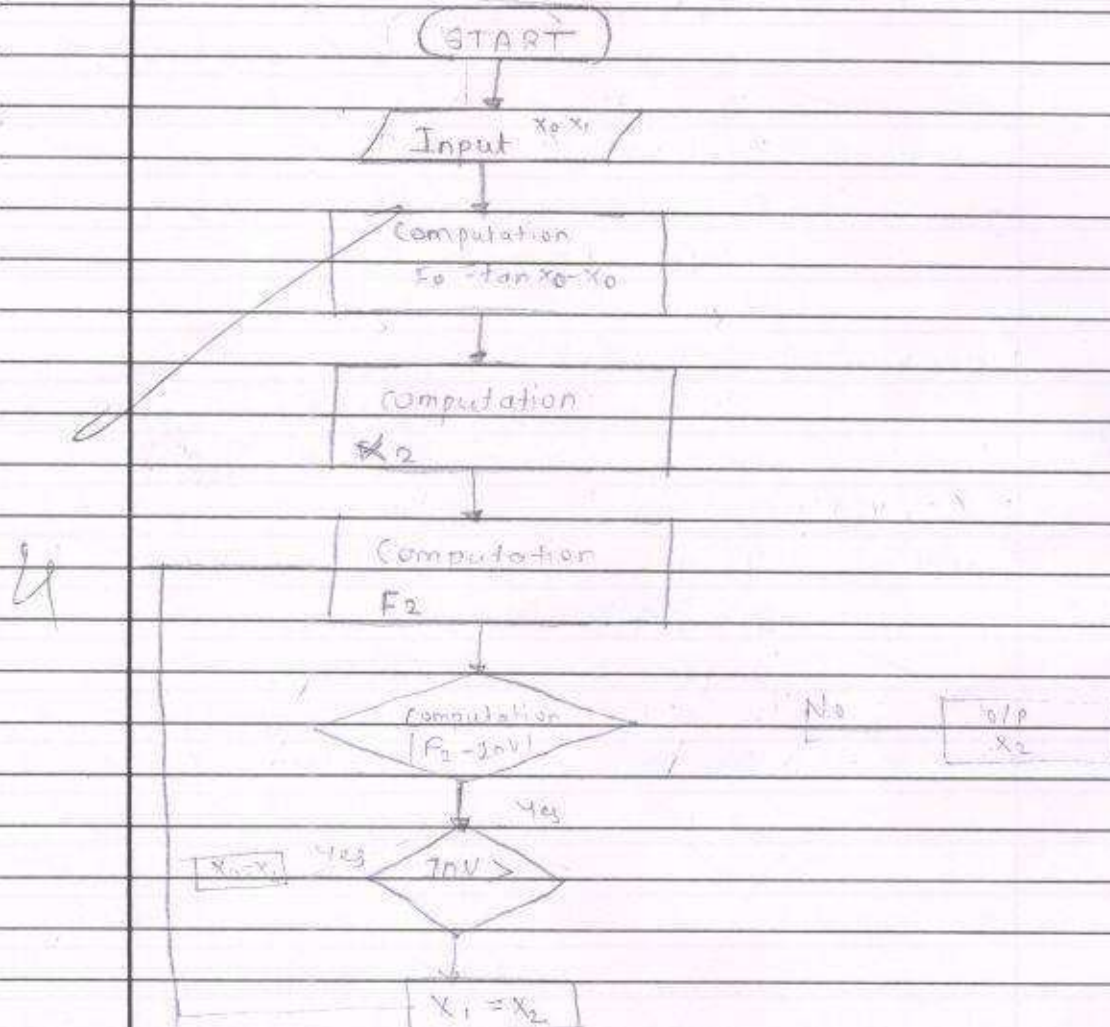
$$\begin{aligned} F(x_3, y_3) &= y_3(x_0)^2 - 1.1 y_3 \\ &= 0.245815 (1.5)^2 - 1.1 \times 0.245815 \\ &= 0.28262555 \end{aligned}$$

$$\begin{aligned} y'''' &= y_3 + hF(x_3, y_3) \\ &= 0.245815 + 0.5 \times 0.28262555 \\ &= 0.387115 \end{aligned}$$

DSM

Q 1 A Flow chart of Bi-section Method

Bi-section Method





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DEPARTMENT OF PRODUCTION ENGINEERING

Unit Test II Attendance Sheet

Class: TE Production (Sandwich)
Subject : Kinematics & Design of Machine

Room No.: 240
Time.: 10.30 to 11.30 am

| SR. No | ROLL NO. | NAME OF THE STUDENTS | Signature |
|--------|----------|-----------------------------------|-----------|
| 1 | 21PS301 | BHAGAT KRUSHNA VIJAY | |
| 2 | 21PS302 | BHOSALE OMKAR MANOJ | |
| 3 | 20PS001 | BHOSALE SAHIL MANOJ | |
| 4 | 17PS011 | DAIVE PRANAV SUBHASH | |
| 5 | 21PS303 | DESHMUKH SATYAJEET GOPALKRUSHNA | |
| 6 | 21PS304 | DESHMUKH SHRIGANESH PRAVINCHANDRA | |
| 7 | 21PS305 | DHAKE PURVESH PRAVIN | |
| 8 | 20PS002 | DHOKARE SURAJ RAMDAS | |
| 9 | 21PS306 | GAIKWAD PRATIK TRUSHANT | |
| 10 | 20PS003 | GHAROTE SAISHNU SANJAY | |
| 11 | 21PS307 | GORE RAHUL RAJU | |
| 12 | 20PS004 | JADHAO SHIVRAJ HEMANT | |
| 13 | 21PS308 | KACHI ADITYA GIRISH | |
| 14 | 21PS309 | KALE PRANAV PRATAP | |
| 15 | 21PS310 | KARDILE GAURAV SANTOSH | |
| 16 | 21PS311 | KHAN MUHAMMED JAWWAD | |
| 17 | 21PS312 | MAHAJAN SHARDUL RAVINDRA | |
| 18 | 20PS005 | MANDHARE ATHARVA RAVINDRA | |
| 19 | 20PS006 | MOHD TOUSEEF | |
| 20 | 21PS313 | MORE NILESH SANJAY | |
| 21 | 21PS314 | NAIK RUTURAJ VIJAY | |
| 22 | 21PS315 | PARNERKAR ATHARVA UMESH | |
| 23 | 20PS007 | PATIL ADITYA KAILAS | |
| 24 | 21PS316 | RATHOR KUNAL SURESHCHAND | |
| 25 | 21PS317 | SONAWANE SANKET AJAY | |
| 26 | 20PS008 | TADAS YASH JAGDISH | |
| 27 | 21PS318 | TALEKAR PRATHMESH MOHAN | |
| 28 | 21PS319 | THAKUR EKTA SHANMUKH | |
| 29 | | | |
| 30 | | | |

Signature of Examiner

Head of Department
Head of Department
Production Engineering
AISSMS COE, PUNE I



DEPARTMENT OF PRODUCTION ENGINEERING
UNIT TEST: II


Class: TE Production (Sandwich Pattern)
Course: Kinematics and Design of Machines
Time: 1:00 Hr

AY: 2022-23 Term: II
Course Code: 311084(A)
Max. Marks: 30

CO 3: Students will be able to apply the fundamentals of kinematics for analysis of cams and flywheel.
CO 4: Students will be able to design the simple components shaft, beams subjected to fluctuating loading.

| Q. No. | Question | Marks | Cognitive Level |
|--------|--|-------|-----------------|
| Q1) | a) Define the following terms as applied to cam with neat sketch: i) Base Circle ii) Pitch Circle iii) Pressure angle iv) Stroke of the follower | 06 | Understand |
| | b) A punching press is required to punch 40 mm diameter holes in a plate of 15 mm thickness at the rate of 30 holes per minute. It requires 6 N-m of energy per mm ² of sheared area. If the punching takes 1/10 of a second and the r.p.m. of the flywheel varies from 160 to 140, determine the mass of the flywheel having radius of gyration of 1 metre. | 09 | Apply |
| | OR | | |
| Q2) | a) Sketch different types of cams and follower and name it. | 06 | Understand |
| | b) A multi-cylinder engine is to run at a speed of 600 r.p.m. On drawing the turning moment diagram to a scale of 1 mm = 250 N-m and 1 mm = 3°, the areas above and below the mean torque line in mm ² are : + 160, - 172, + 168, - 191, + 197, - 162 The speed is to be kept within ± 1% of the mean speed of the engine. Calculate the necessary moment of inertia of the flywheel. Also determine the mass of flywheel rim. The density of the cast iron is 7250 kg/m ³ and its hoop stress is 6 MPa. Assume that the rim contributes 92% of the flywheel effect. | 09 | Apply |
| Q3) | a) Explain fluctuating stress, repeated stresses and reversed stresses. Draw diagram for each type of stress | 06 | Understand |
| | b) A cantilever beam of circular cross-section, made of cold drawn steel having ultimate tensile strength of 550 N/mm ² , is fixed at one end and is subjected to completely reversed force of 15 kN at the free end. The force is perpendicular to the axis of the beam. The distance between the fixed and free end of the cantilever beam is 200 mm. The theoretical stress concentration factor and the notch sensitivity at the fixed end are 1.35 and 0.85 respectively. The surface finish factor is 0.80. The expected reliability is 90%, for which the reliability factor is 0.897. The values of size factor are as follows: | | |

| | |
|--------------------|-------------|
| Diameter 'd' in mm | Size Factor |
|--------------------|-------------|


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AISSMS COE, PUNE 1

| | |
|-------------------|------|
| $d \leq 7.5$ | 1.00 |
| $7.5 < d \leq 50$ | 0.85 |
| $d > 50$ | 0.75 |

09

Apply

If the factor of safety is 2.0, determine the diameter of the beam for infinite life.

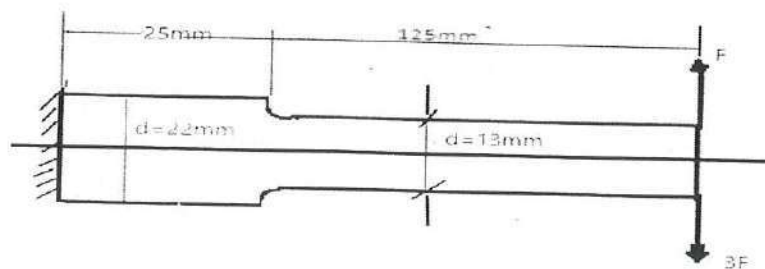
OR

- Q4) a) What is Notch sensitivity? Why it is required? what are its extreme values for fully sensitive and no sensitive material to notch effects?

05

Understand

- b) A cantilever beam made of cold drawn steel 35C8 ($S_{ut} = 550 \text{ N/mm}^2$ and $S_{yt} = 320 \text{ N/mm}^2$), shown in Fig. is subjected to a load which varies from $-F$ to $3F$. The surface finish factor and size factor are 0.89 and 0.85, respectively. The theoretical stress concentration factor and notch sensitivity at the fillet are 1.42 and 0.9, respectively. If the factor of safety is 2, determine the maximum value of F , which the cantilever beam can withstand for infinite life.



10

Apply

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DEPARTMENT OF PRODUCTION ENGINEERING

Test II Marksheet

Class: TE Prod s/w

Subject : Kinematics & Design of Machine

| SR. No | ROLL NO. | NAME OF THE STUDENTS | Marks | Remark |
|--------|----------|-----------------------------------|-------|--------|
| 1 | 21PS301 | BHAGAT KRUSHNA VIJAY | 16 | |
| 2 | 21PS302 | BHOSALE OMKAR MANOJ | 20 | |
| 3 | 20PS001 | BHOSALE SAHIL MANOJ | 18 | |
| 4 | 17PS011 | DAIVE PRANAV SUBHASH | AB | |
| 5 | 21PS303 | DESHMUKH SATYAJEET GOPALKRUSHNA | 21 | |
| 6 | 21PS304 | DESHMUKH SHRIGANESH PRAVINCHANDRA | 21 | |
| 7 | 21PS305 | DHAKE PURVESH PRAVIN | 17 | |
| 8 | 20PS002 | DHOKARE SURAJ RAMDAS | 20 | |
| 9 | 21PS306 | GAIKWAD PRATIK TRUSHANT | 23 | |
| 10 | 20PS003 | GHAROTE SAISHNU SANJAY | 20 | |
| 11 | 21PS307 | GORE RAHUL RAJU | 20 | |
| 12 | 20PS004 | JADHAO SHIVRAJ HEMANT | AB | |
| 13 | 21PS308 | KACHI ADITYA GIRISH | 14 | |
| 14 | 21PS309 | KALE PRANAV PRATAP | 26 | |
| 15 | 21PS310 | KARDILE GAURAV SANTOSH | 18 | |
| 16 | 21PS311 | KHAN MUHAMMED JAWWAD | 18 | |
| 17 | 21PS312 | MAHAJAN SHARDUL RAVINDRA | 18 | |
| 18 | 20PS005 | MANDHARE ATHARVA RAVINDRA | 18 | |
| 19 | 20PS006 | MOHD TOUSEEF | 18 | |
| 20 | 21PS313 | MORE NILESH SANJAY | 18 | |
| 21 | 21PS314 | NAIK RUTURAJ VIJAY | 19 | |
| 22 | 21PS315 | PARNERKAR ATHARVA UMESH | 16 | |
| 23 | 20PS007 | PATIL ADITYA KAILAS | 20 | |
| 24 | 21PS316 | RATHOR KUNAL SURESHCHAND | 19 | |
| 25 | 21PS317 | SONAWANE SANKET AJAY | 21 | |
| 26 | 20PS008 | TADAS YASH JAGDISH | 14 | |
| 27 | 21PS318 | TALEKAR PRATHMESH MOHAN | 13 | |
| 28 | 21PS319 | THAKUR EKTA SHANMUKH | 22 | |


Signature of Examiner


Head of Department
Head of Department
Production Engineering
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DEPARTMENT OF PRODUCTION ENGINEERING

Test- II

Result Analysis

Class: TE Prod s/w

Subject: Kinematics & Design of Machine

Total No of Students As per Roll Call List: 28

AY: 2022-23

Term II

| Sr. No. | Description | Total No. of Students | Percentage (%) |
|---------|---------------------------------|-----------------------|----------------|
| 1 | Students Appear for Examination | 26 | 92.86% |
| 2 | Students Absent for Examination | 02 | 7.14% |
| 3 | Students Passed | 26 | 100% |
| 4 | Students Failed | -Nil- | -Nil- |

Veejhay

Sign of Faculty:

Name of Faculty: Veejhay Dholle

Date:

Bidgar

Mr S K Bidgar

Exam Coordinator

Shekapure

Dr N G Shekapure

HOD

Head of Department
Production Engineering
AISSMS COE, PUNE I



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KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Kale Pranav Pratap

Roll No.: 21PS309

Subject Kinematics & Design of Machines

Division :

Examination Unit Test - II

Day & Date :

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|----|---|---|----|---|---|---|---|---|----|-------------|
| Marks | 13 | — | — | 13 | — | — | — | — | — | — | 26/30 |

Examiner Signature

veishy

(21)

b2) Solution:-

Given:- $d = 40\text{mm}$; $t = 15\text{mm}$; No. of holes = 30/min;

Energy required = 6N-m/mm^2 ; Time = $1/10\text{s} = 0.1\text{s}$

$N_1 = 160\text{ r.p.m}$, $N_2 = 140\text{ r.p.m}$; $K = 1\text{m}$

We know that sheared area per hole,

$$= \pi \cdot d \cdot t = \pi \times 40 \times 15 = 1885\text{ mm}^2$$

∴ Energy required to punch a hole,

$$E_1 = 6 \times 1885 = 11310\text{ N-m}$$

Q

Energy required for punching work per second,

= Energy required per hole \times No. of holes per second

$$= 11310 \times 30/60 = 5655\text{ N-m/s}$$

$$E_2 = 5655 \times 1/10$$

$$= 565.5\text{ N-m}$$

∴ Energy to be supplied by the flywheel during punching a hole or maximum fluctuation of energy of the flywheel

$$\Delta F = E_1 - E_2$$

$$= 11310 - 565.5$$

$$= 10744.5 \text{ N-m}$$

Mean speed of the flywheel,

$$N = \frac{N_1 + N_2}{2} = \frac{160 + 140}{2}$$

$$N = 150 \text{ r.p.m.}$$

We know that, ΔF

$$10744.5 = \frac{\pi^2}{900} \times m \cdot k^2 N (N_1 - N_2)$$

$$= 0.011 \times m \times 1^2 \times 150 (160 - 140)$$

$$= 33m$$

$$m = \frac{10744.5}{33}$$

$$m = 327 \text{ kg}$$

Q4)

b)

→

Solution:-

Given:-

$$S_{ut} = 550 \text{ N/mm}^2$$

$$S_{yt} = 320 \text{ N/mm}^2$$

$$P_{max} = 3F$$

$$P_{min} = -F$$

$$K_a = 0.89$$

$$K_b = 0.85$$

$$K_t = 1.42$$

$$q = 0.9$$

$$N_c = 2$$

$$S_e = 0.5 S_{ut} \text{ or } 700 \text{ N/mm}^2 \text{ whichever is smaller}$$

$$= 0.5 \times 550 \text{ or } 700 \text{ N/mm}^2$$

$$= 275 \text{ or } 700.$$

$$S_e = 275 \text{ N/mm}^2$$

$$k_f = q(k_t - 1) + 1 = 0.9(1.42 - 1) + 1$$

$$k_f = 1.378$$

$$k_e = 1/k_f = \frac{1}{1.378}$$

$$k_e = 0.7257$$

$$S_e = k_a \cdot k_b \cdot k_c \cdot k_d \cdot k_e \cdot k_g \cdot S'_e$$

$$= 0.89 \times 0.85 \times 1 \times 1 \times 0.7257 \times 1 \times 275$$

$$S_e = 150.97 \text{ N/mm}^2$$

or

At fillet section,

$$M_{\max} = P_{\max} \times l = 3F \times 125$$

$$= 375F \text{ N-mm}$$

$$M_{\min} = P_{\min} \times l = -F \times 125$$

$$= -125F \text{ N-mm}$$

$$(\sigma_b)_{\max} = \frac{32 M_{\max}}{\pi d^3} = \frac{32 \times 375F}{\pi (13)^3}$$

$$= 1.7386F \text{ N/mm}^2$$

$$(\sigma_b)_{\min} = \frac{32 M_{\min}}{\pi d^3} = \frac{-32 \times 125F}{\pi (13)^3}$$

$$= -0.5795 F \text{ N/mm}^2$$

$$\sigma_{bm} = \frac{(\sigma_b)_{\max} + (\sigma_b)_{\min}}{2}$$

$$= \frac{(1.7386F) + (-0.5795F)}{2}$$

$$= 0.5795 F \text{ N/mm}^2$$

$$\sigma_{ba} = \frac{(\sigma_b)_{\max} - (\sigma_b)_{\min}}{2}$$

$$= \frac{(1.7386F) - (-0.5795F)}{2}$$

$$= 1.1591 F \text{ N/mm}^2$$

may

Equation of line AB is,

$$\frac{\sigma_m}{\sigma_{yt}} + \frac{\sigma_a}{\sigma_{yt}} = 1 \quad \dots (a)$$



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Supervisor's Signature

Name _____ Roll No.: _____

Subject _____ Division : _____

Examination _____ Day & Date : _____

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | Total Marks |
|--------------|---|---|---|---|---|---|---|---|---|----|--|--|-------------|
| Marks | | | | | | | | | | | | | |

Examiner Signature _____

Equation of line Bc is ,

$$\frac{S_m}{S_{ut}} + \frac{S_a}{S_e} = 1 \quad \text{--- (b)}$$

Point B is the intersection of two lines,
Hence at point B,

$$\frac{S_m}{S_{yt}} + \frac{S_a}{S_{yt}} = \frac{S_m}{S_{ut}} + \frac{S_a}{S_e}$$

$$\frac{S_m}{320} + \frac{S_a}{320} = \frac{S_m}{550} + \frac{S_a}{15094}$$

$$\frac{S_m}{765.217} = \frac{S_a}{285.81}$$

$$\frac{S_a}{S_m} = \frac{285.81}{765.217}$$

$$\frac{S_a}{S_m} = 0.3735$$

Now,

$$\tan \theta_L = \frac{S_a}{S_m}$$

or

$$\tan \theta_L = 0.3735$$

$$\theta_L = 20.48^\circ$$

For the point under consideration,

$$\theta = \tan^{-1} \left[\frac{G_{ba}}{G_{bm}} \right]$$

$$= \tan^{-1} \left[\frac{1.1591F}{0.5795F} \right]$$

$$\theta = 63.43^\circ$$

or,

As $\theta > \theta_L$, the equation of line BC governs the design.

$$\frac{S_m}{S_{ut}} + \frac{S_a}{S_e} = 1$$

or

$$\frac{G_{bm}}{S_{ut}} + \frac{G_{ba}}{S_e} = \frac{1}{NF}$$

$$\frac{0.5795F}{550} + \frac{1.1591F}{150.97} = \frac{1}{2}$$

$$8.7313 \times 10^{-3} F = \frac{1}{2}$$

and $F = 57.26 \text{ N}$

$$3F = 3 \times 57.26 \text{ N}$$

$$= 171.8 \text{ N}$$

Q 1)

a)

→

i) Base circle :-

It is the smallest circle that can be drawn to the cam profile

ii) Pitch circle :-

It is a circle drawn from the centre of the cam through the pitch point

iii) Pressure Angle :-

It is the angle between the direction of the follower motion and a normal to the pitch curve

iv) Stroke of the follower :-

It is the maximum travel of the follower from its lowest position to the topmost position.

Q4)

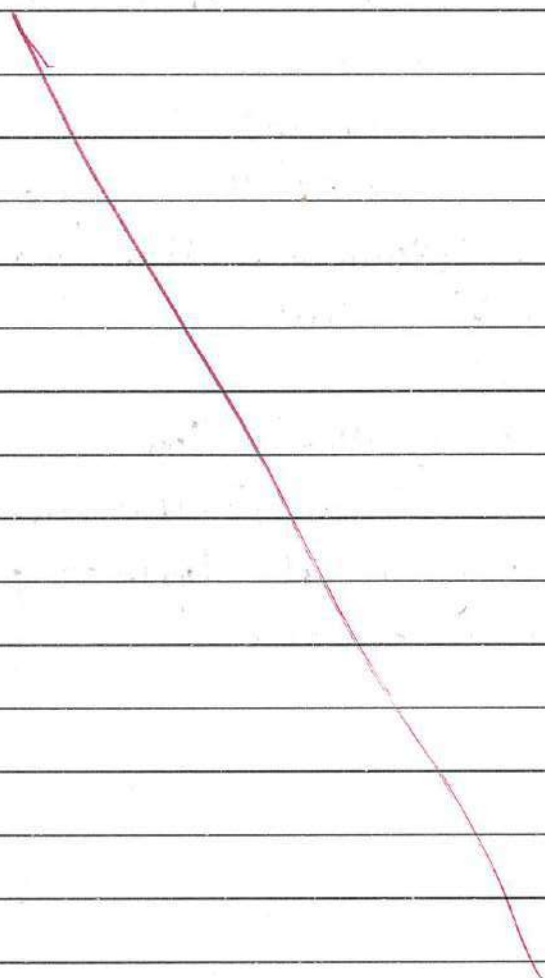
a):



Notch sensitivity refers to the acceptability of a material to the initiation & propagation of cracks or fractures at the location of stress concentration, such as a sharp notch or a stress raiser.



Notch sensitivity is important to consider because it influences the fracture toughness & fatigue strength of a material.





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Department of Civil Engineering Assignment No – 2 (Unit IV, V & VI)

Class- TE

Date of Assignment- 10 /05 /2023

Sub: DRCS

Date of Submission – 20 /05 /2023

| Batch | Question Nos |
|---|--------------|
| Roll No: 18CV027, 19CV086, 20CV053, 3,62, 41,44, 47,25, 15, 58, 17. | 1,2,3 |
| Roll No: 20CV016, 1, 32, 7, 34, 61, 28, 63, 35, 54, 64, 36. | 4,5,6 |
| Roll No: 20CV033, 24, 9, 57, 19, 4, 51, 21, 8, 6, 38, 40. | 7,8,9 |
| Roll No: 20CV010, 31, 37, 43, 60, 50, 52, 46, 42, 22, 13, 27. | 10,11,12 |
| Roll No: 20CV011, 14, 30, 5, 56, 18, 12, 55, 59, 20, 2, 49. | 13,14,15 |
| Roll No: 21CV0306, 301, 308, 307, 314, 309, 310, 312, 313, 302, 303, 311. | 16,17,18 |
| Roll No: 21CV0305, 304, 315, 20CV023, 29, 48. | 19,20,21 |

CO Statement:


CO4: Design & detailing of dog legged and open well staircase.

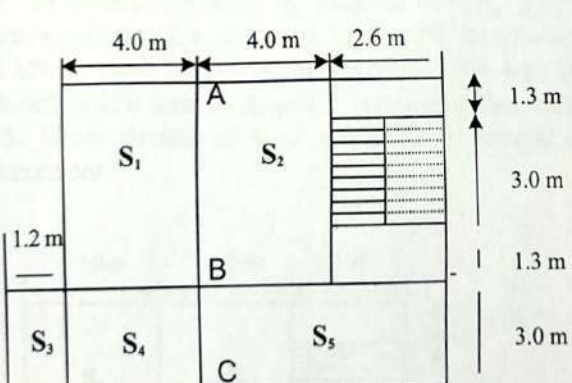
CO5: Design & detailing of singly/doubly rectangular/flanged beams for flexure, shear, bond and torsion.

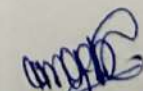
CO6: Design & detailing of short columns subjected to axial load, uni-axial/bi-axial bending and their footings.

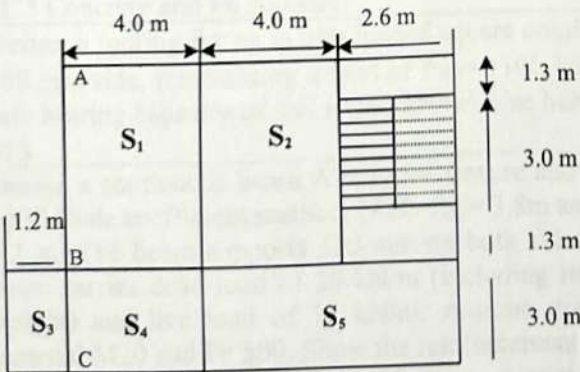
Taxonomy Level: (For eg Remember/Understand/Apply/Analyze/Evaluate/Create)


| Sr. No. | Question | Taxonomy Level | CO | Marks |
|---------|----------|----------------|----|-------|
|---------|----------|----------------|----|-------|

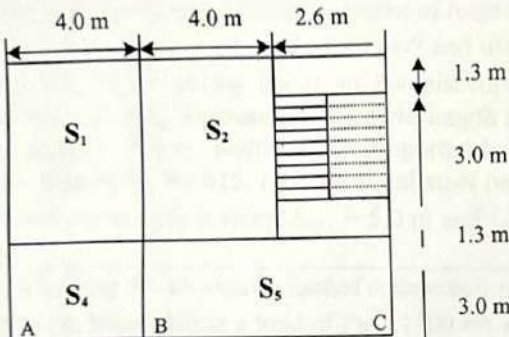

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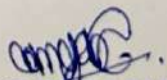
| | | | | |
|---|--|--------------------|-----|----|
| 1 | Continuous RC beam ABC of rectangular section is simply supported at A and C and continuous over support B. Span of AB = 4.5 m and BC = 5.5 m. The beam carries D.L. of 20 kN/m (including its self-weight) and LL of 16 kN/m. The beam supports 120 mm slab on both sides. Design beam for span AB and BC for flexure and shear using 20 % redistribution of moments. Material used M25, Fe 500. Draw details of reinforcement | Analyze, Create | CO4 | 05 |
| 2 | Design the reinforcement in a column of a 450 mm x 600 mm, subject to an axial load of 200 kN under service dead load and live loads. The column has an unsupported length of 3.0 m and is restrained in both directions. Use M20 Concrete and Fe 500 steel. | Analyze, Create | CO5 | 05 |
| 3 | Design a footing for an axially loaded square column of 450 mm side, transmitting a load of $P_u = 1000$ kN and safe bearing capacity of soil is 300 kN/m ² . Use M20, Fe 415. | Analyze, Create | CO6 | 05 |
| 4 | Design a continuous beam ABC for flexure and shear using 15% redistribution of moments using LSM. Thickness of all slab is 150 mm. LL and FF on all slabs are 4 kN/m ² . And 1.5 kN/m ² , respectively. The wall on this beam is 230 mm thick and 2.75m high, Use M20, Fe415. Show details of load calculations, layout of reinforcement.  | Analyze, Create | CO4 | 05 |
| 5 | Design a short reinforced concrete column of rectangular section to carry an ultimate load of 600 kN and ultimate moment 100 kN.m acting about an axis bisecting the depth of the column. Assume the effective length of the column equal to 4.5 m, width of the supported beam is 300 mm. Use M20, Fe 415. Provide equal steel on both tension and compression sides. $L_{eff x} = 4.5$ m and $L_{eff y} = 3.5$ m. | Analyze, Create | CO5 | 05 |


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| | | | | |
|---|--|-----------------|-----|----|
| 6 | A column carries axial load $P_u = 1500 \text{ kN}$. Design an isolated rectangular footing for the column, safe bearing capacity of soil is 250 kN/m^2 . The column size is $300 \text{ mm} \times 500 \text{ mm}$. Use M20, Fe 415. Draw sectional elevation and plan showing reinforcement details. | Analyze, Create | CO6 | 05 |
| 7 | Design a continuous beam ABCD for flexure and shear by IS Code coefficient method. ($AB = BC = CD = 4.2 \text{ m}$) The beam supports 120 mm on both sides. The beam carries dead load of 18 kN/m (including its self-weight) and live load of 10 kN/m . Take material M20 and Fe 500, Show the reinforcement detail in longitudinal section and cross section at continuous support and at mid span | Analyze, Create | CO4 | 05 |
| 8 | A corner column ($400 \text{ mm} \times 400 \text{ mm}$) located in the lowermost storey of a system of braced frames, is subjected to factored loads $P_u = 1300 \text{ kN}$, $M_{ux} = 190 \text{ kN.m}$ and $M_{uy} = 110 \text{ kN.m}$. the unsupported length of column is 3.5 m . Design the reinforcement in the column, assuming M25 concrete and Fe 415. | Analyze, Create | CO5 | 05 |
| 9 | Design a square footing for a $400 \text{ mm} \times 400 \text{ mm}$ size column, carrying a direct load of 800 kN and subjected to a moment of 70 kN.m . The safe bearing capacity of soil is 150 kN/m^2 . Use M20, Fe415. | Analyze, Create | CO6 | 05 |
| 10 | Design a continuous beam ABC for flexure and shear using 15% redistribution of moments using LSM. Thickness of all slab is 150 mm . LL and FF on all slabs are 4 kN/m^2 . And 1.5 kN/m^2 , respectively. The wall on this beam is 230 mm thick and 2.75 m high, Use M20, Fe415. Show details of load calculations, layout of reinforcement. | Analyze, Create | CO4 | 05 |
|  | | | | |
| 11 | Design a short concrete column to carry an ultimate axial load of 90 kN and ultimate moment of 30 kN.m acting | Analyze, Create | CO5 | 05 |



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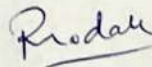
| | | | | |
|----|---|--------------------|-----|----|
| | an axis bisecting the width of column. Use Concrete M20 and steel Fe 415, Assume Moderate Environment | | | |
| 12 | A column carries axial load $P_u = 1600 \text{ kN}$. Design an isolated rectangular footing for the column, safe bearing capacity of soil is 230 kN/m^2 . The column size is $400 \text{ mm} \times 600 \text{ mm}$. Use M20, Fe 415. Draw sectional elevation and plan showing reinforcement details. | Analyze, Create | CO6 | 05 |
| 13 | Design a continuous beam ABC for flexure and shear using 15% redistribution of moments using LSM. Thickness of all slab is 150 mm . LL and FF on all slabs are 4 kN/m^2 . And 1.5 kN/m^2 , respectively. The wall on this beam is 230 mm thick and 2.75 m high, Use M20, Fe415. Show details of load calculations, layout of reinforcement. | Analyze, Create | CO4 | 05 |
| |  | | | |
| 14 | Design the reinforcement in a column of a $500 \text{ mm} \times 650 \text{ mm}$, subject to an axial load of 220 kN under service dead load and live loads. The column has an unsupported length of 3.5 m and is restrained in both directions. Use M25 Concrete and Fe 500 steel. | Analyze, Create | CO5 | 05 |
| 15 | Design a footing for an axially loaded square column of 500 mm side, transmitting a load of $P_u = 1100 \text{ kN}$ and safe bearing capacity of soil is 280 kN/m^2 . Use M20, Fe 415. | Analyze, Create | CO6 | 05 |
| 16 | Design a continuous beam ABCD for flexure and shear by IS Code coefficient method. ($AB = BC = 3.8 \text{ m}$ and $CD = 4.2 \text{ m}$) The beam supports 130 mm on both sides. The beam carries dead load of 20 kN/m (including its self-weight) and live load of 12 kN/m . Assume grade of material M20 and Fe 500, Show the reinforcement detail in longitudinal section and cross section at continuous support and at mid span | Analyze, Create | CO4 | 05 |
| 17 | Design a short concrete column to carry an ultimate axial load of 110 kN and ultimate moment of 40 | Analyze, Create | CO5 | 05 |



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| | | | | |
|----|--|--------------------|-----|----|
| | $kN.m$ acting on axis bisecting the width of column. Use Concrete M20 and steel Fe 415, Assume Mild Environment. | | | |
| 18 | A column carries axial load $P_u = 1800 \text{ kN}$. Design an isolated rectangular footing for the column, safe bearing capacity of soil is 250 kN/m^2 . The column size is $400 \text{ mm} \times 500 \text{ mm}$. Use M20, Fe 415. Draw sectional elevation and plan showing reinforcement details. | Analyze, Create | CO6 | 05 |
| 19 | Design a continuous beam ABCD for flexure and shear by IS Code coefficient method. ($AB=BC=CD= 5.0 \text{ m}$) The beam supports 150 mm on both sides. The beam carries dead load of 21 kN/m (including its self-weight) and live load of 15 kN/m . Take material M25 and Fe 500, Show the reinforcement detail in longitudinal section and cross section at continuous support and at mid span | Analyze, Create | CO4 | 05 |
| 20 | Design a short reinforced concrete column of rectangular section to carry an ultimate load of 800 kN and ultimate moment 150 kN.m acting about an axis bisecting the depth of the column. Assume the effective length of the column equal to 4.0 m , width of the supported beam is 300 mm . Use M20, Fe 415. Provide equal steel on both tension and compression sides. $L_{eff x} = 5.0 \text{ m}$ and $L_{eff y} = 4.5 \text{ m}$. | Analyze, Create | CO5 | 05 |
| 21 | Design a footing for an axially loaded square column of 550 mm side, transmitting a load of $P_u = 1500 \text{ kN}$ and safe bearing capacity of soil is 300 kN/m^2 . Use M20, Fe 500. | Analyze, Create | CO6 | 05 |

Remarks: 
Course Coordinator


Module Coordinator


PAC Coordinator


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NAME : BHALSHANKAR SNEHA RAVI

22-23 ~~sem II~~ sem II

ROLL NO: 21CV304

DIV : TE - CIVIL - A

Sub - DRCS

ASSIGNMENT NO: 1

Q25 What is partial safety factor used in the design of RCC section why they are called as partial? Give the partial safety factors for stresses in steel & concrete?

- Ans =
- safety of structure depends on the 2 principle design factors like load & materials strength which are not the functions of each other
 - Two different safety factors, one for load & other for material strength are used instead of single safety factor
 - Partial safety factor for load (γ_f) & Design load (F_d) (cl. no. 36.4.1) Pg. 68.

It takes into account unforeseen possible increase in load

Ans = Inadequate assessment of load

- Partial safety factor for materials is the ratio of strength to design strength of material

$$\gamma_m = \frac{F_k}{F_d}$$

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Material

Limit state

collapse

Deflection

local damage

- concrete

1.50

1.00

1.00

- steel

1.15

1.00

1.00

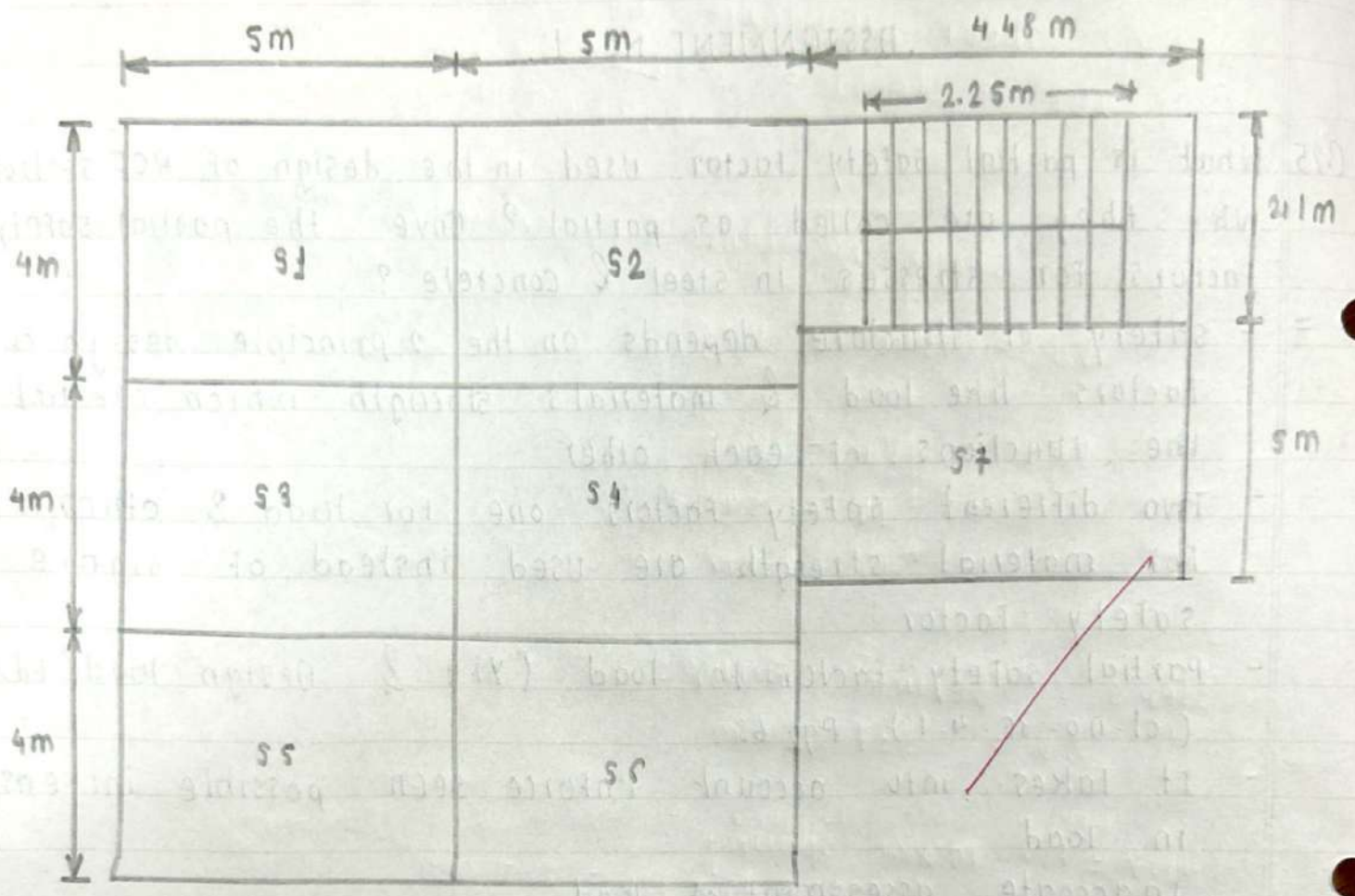
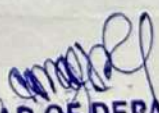


Fig: 1


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Q26 The central line plan of building is as shown in Fig. 1 classify the slabs structurally & Design the s1 & s2 only for flexure by L.S.M. Draw neat sketches show details of reinforcement. Take live load = 4 kN/m^2
Floor Finish = 1.5 kN/m^2 Materials = M25 grade of concrete
Fe 415 grade of reinforcement Assume suitable data if required.

Design of slab s1 & s2

Step 1: Type of slab

$$\frac{L_y}{L_x} = \frac{5}{4} = 1.25 < 2$$

Design a two way slab

Step 2: Effective span & trial depth

Assume $p_t\%$ = 0.3% For Fe 415

$$\therefore M_F = 1.5$$

$$d = \frac{4000}{20 \times 1.5} = 133.33 \text{ mm}$$

$$\begin{aligned} D &= d + c.c + \phi/2 \\ &= 133.33 + 15 + 8/2 \\ &= 152.33 \approx 160 \text{ mm} \end{aligned}$$

$$\begin{aligned} d &= D - c - \phi/2 \\ &= 160 - 15 + 8/2 \\ &= 141 \text{ mm} \end{aligned}$$

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step 3: load calculations:

i) Dead load = $25 \times 0.16 = 4 \text{ kN/m}^2$

ii) Floor Finish = 1.5 kN/m^2

iii) Live load = 4 kN/m^2

Total load = $W = 9.5 \text{ kN/m}$

$W_u = 14.25 \text{ kN/m}$

step 4: Factored bending moment

$M_{ux} = \alpha_x W_u (l_x)^2$ & $M_{uy} = \alpha_y W_u (l_x)^2$

$W_u (l_x)^2 = 14.25 \times 4^2 = 228$

Two way slab s_1 & s_2 is case 4 as two adjacent edges are discontinuous (table 26 cl/s D.1.1 Pg. 90)

| Material | α_x | | | α_y | M_{ux} | M_{uy} |
|----------|------------|-------|--------|------------|----------|----------|
| | 1.2 | 1.3 | 1.25 | | | |
| Negative | 0.060 | 0.065 | 0.0625 | 0.047 | 14.25 | 10.72 |
| Positive | 0.045 | 0.049 | 0.047 | 0.035 | 10.72 | 8 |

$M_{u\max} = 14.25 \text{ kN.m}$

step 5: Main reinforcement

i) steel along support (continuous edge) short span

$A_{stx} = \frac{0.5 \times 20}{415} \left(1 - \sqrt{1 - \frac{4.6 \times 14.25 \times 10^6}{20 \times 1000 \times 141^2}} \right) \times 1000 \times 141$

$= 292.7 \text{ mm}^2$

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$$S = \frac{1000 \times \pi/4 \times 8^2}{292.7}$$

$$= 171.7 \approx 160 \text{ mm} < 300 \text{ or } 3d$$

provide 8mm ϕ @ 160 mm c/c

ii) steel at mid span of short span & support of long span

$$Astx = \frac{0.5 \times 20}{415} \left(1 - \sqrt{1 - \frac{4.6 \times 10.72 \times 10^6}{20 \times 1000 \times 141^2}} \right) \times 1000 \times 141$$

$$= 217.65 \text{ mm}^2$$

$$S = \frac{1000 \times \pi/4 \times 8^2}{217.65}$$

$$= 230 \text{ mm} \approx 220 \text{ mm} < 3d \text{ or } 300 \text{ mm}$$

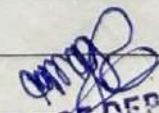
ii) steel at mid span of long span

$$Astx = \frac{0.5 \times 20}{415} \left(1 - \sqrt{1 - \frac{4.6 \times 8 \times 10^6}{20 \times 1000 \times 133^2}} \right) \times 1000 \times 133$$

$$= 171.25 \text{ mm}^2$$

$$S = \frac{1000 \times \pi/4 \times 8^2}{171.25}$$

$$= 293.5 \approx 280 \text{ mm} < 300 \text{ or } 3d$$


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- i) $A_{st \text{ pro}} = 314.25 \text{ mm}^2$
- ii) $A_{st \text{ pro}} = 228.5 \text{ mm}^2$
- iii) $A_{st \text{ pro}} = 179.5 \text{ mm}^2$

step 5 = check for depth by $M_{u \text{ lim}}$

$$\begin{aligned} M_{u \text{ lim}} &= 0.138 \times f_{ck} b d^2 \\ &= 0.138 \times 20 \times 1000 \times d^2 \\ &= 2760 d^2 \end{aligned}$$

\therefore Equate $M_{u \text{ x}} \& (M_d)$

$$d_{\text{req}} = 71.85 \text{ mm} < 141 \text{ mm}$$

safe

step 7 : check for Deflection

$$P_t \text{ pro} = \frac{100 \times A_{st \text{ P}}}{b d}$$

$$= \frac{100 \times 228.2}{1000 \times 141}$$

$$= 0.16 \%$$

$$F_s = \frac{0.58 f_y \times A_{st \text{ req}}}{A_{st \text{ pro}}}$$

$$= \frac{0.58 f_y \times 415 \times 217.7}{228.5}$$

$$= 229.3 \approx 230 \text{ N/mm}^2$$

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$$MF = 1.7 \quad (\text{From Fig 4 pg. 38})$$

$$\text{Depth req} = \frac{4000}{20 \times 1.7} = 117.65 \text{ mm} < 160 \text{ mm}$$

safe

Step 8 : Design of Torsional steel

$$A_{st} = \frac{3}{4} A_{st} d$$

$$= \frac{3}{4} \times 228.5$$

$$= 171 \text{ mm}^2$$

$$s = \frac{1000 \times \pi/4 \times \phi^2}{171}$$

$$= 293.5 \approx 200 \text{ mm}$$

Step 9 : Design of Distribution steel

$$A_{st} = 0.12\% \text{ bd} = \frac{0.12}{100} \times 1000 \times 160$$

$$= 192 \text{ mm}^2$$

$$s = \frac{1000 \times \pi/4 \times \phi^2}{192} = 261.5 \approx 250 \text{ mm}$$

It is provided in the edge strip of width

$$\frac{l}{8} \times 2 = \frac{l}{8} \times 4000 = 500 \text{ mm}$$

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$$\frac{l}{8} l_y = \frac{1}{8} \times 5000 = 625 \text{ mm}$$

step 10 : check for shear

$$\begin{aligned} V_d &= W_u (0.5 l_x - d) \\ &= 14.25 (0.5 \times 4 - 0.141) \\ &= 26.5 \text{ kN} \end{aligned}$$

$$\tau_v = \frac{V_d}{bd} = \frac{26.5 \times 10^3}{1000 \times 141} = 0.19 \text{ N/mm}^2$$


$$\tau_c = 0.29 \text{ N/mm}^2$$

$$k = 1.28$$

$$\begin{aligned} \tau_c &= 1.28 \times 0.29 \\ &= 0.37 \text{ N/mm}^2 \end{aligned}$$

$$\tau_c > \tau_v$$

\therefore safe


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Q.21 Design Flight I of the stair case as shown in Fig 1 for the following data:

i) Floor to Floor height = 3.2 m

ii) Rise = 160 mm

iii) Tread = 250 mm

iv) Width of landing = 1.115 m

v) Width of stairs = 1 m

vi) Gap betⁿ flights = 100 mm

= Step 1 : Preliminary data

- Ht of each flight = $H = \frac{3200}{2} = 1600 \text{ mm}$

- No. of riser = $R = \frac{H}{\text{rise}} = \frac{1600}{160} = 10$

- No. of treads = $T = R - 1 = 10 - 1 = 9$

- Going = $G = 9 \times 250 = 2250 \text{ mm}$

- Landing on each side = 1.115 m

$L_1 = 2250 + 1115 = 3365 \text{ mm}$

Step 2 : Depth of waist slab based on serviceability

Assume $\% \text{ pt} = 0.4 \%$

$f_s = 0.58 \times f_y$

$= 0.58 \times 500$

$= 290 \text{ MPa}$

$M F = 1.1$

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$$d = \frac{3365}{1.1 \times 20} = 153 \text{ mm}$$

$$\begin{aligned} D &= d + c + \phi / 2 \\ &= 153 + 15 + 10 / 2 \\ &= 173 \text{ mm} \approx 180 \text{ mm} \end{aligned}$$

$$\begin{aligned} d &= 180 - 15 - 10 / 2 \\ &= 160 \text{ mm} \end{aligned}$$

Step 3 : Effective span

$$\begin{aligned} L_{eff} &= 3365 + 160 \\ &= 3.52 \text{ m} \end{aligned}$$

Step 4 : Load calculations

$$DL \text{ of waist slab} = \gamma \times D \times \left(\frac{\sqrt{T^2 + R^2}}{T} \right)$$

$$= 20 \times 0.18 \times \left(\frac{\sqrt{250^2 + 160^2}}{250} \right)$$

$$= 4.27 \text{ kN/m}^2$$

$$LL = 4 \text{ kN/m}^2$$

$$F.F = 1.5 \text{ kN/m}^2$$

$$W1 = 9.77 \text{ kN/m}^2$$

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$$S.W \text{ of step} = \gamma \times R / 2 = 20 \times 0.16 / 2$$

$$= 1.6 \text{ kN/m}^2$$

$$W_2 = W_1 + \text{DL step}$$

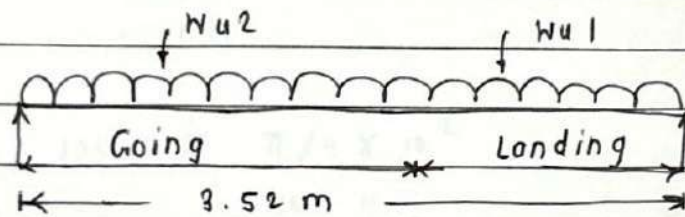
$$= 9.77 + 1.6$$

$$= 11.37 \text{ KN.m}$$

step 5: factored load

$$W_{u1} = 1.5 \times 9.77 = 14.65 \text{ KN/m}$$

$$W_{u2} = 1.5 \times 11.37 = 17.05 \text{ KN/m}$$



step 6: Factored bending moment

$$M_u = \frac{W_{u1}^2}{8} = \frac{17.05 \times 3.52^2}{8}$$

$$= 26.41 \text{ KN.m}$$

step 7: Depth req for max bm

$$M_u = M_{u\text{lim}}$$

$$M_{u\text{lim}} = 0.133 \times 20 \times 1000 d^2$$

$$d = \sqrt{\frac{26.41 \times 10^6}{0.133 \times 20 \times 1000}}$$

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$$= 102.46 \text{ mm} < 160 \text{ mm} \therefore \text{OK}$$

step 8: longitudinal steel

$$A_{st} = \frac{0.5 \times 20}{500} \left(1 - \sqrt{1 - \frac{4.6 \times 26.41 \times 10^6}{20 \times 1000 \times 160^2}} \right) \times 1000 \times 160$$

$$= 406.4 \text{ mm}^2$$

$$A_{st \min} = \frac{0.12}{100} \times 1000 \times 180$$

$$= 216 \text{ mm}^2$$

$$A_{st} > A_{st \min}$$

∴ OK

$$s = \frac{1000 \times \pi/4 \times 10^2}{406.4}$$

$$= 193.25 \approx 190 \text{ mm}$$

∴ Provided 10 mm ϕ bar @ 190 mm c/c

step 9 : Distribution steel

$$A_{st d} = A_{st \min} = 216 \text{ mm}^2$$

$$s = \frac{1000 \times \pi/4 \times 6^2}{216}$$


$$= 130 \text{ mm}$$

∴ provide 6 mm ϕ bar @ 130 mm c/c

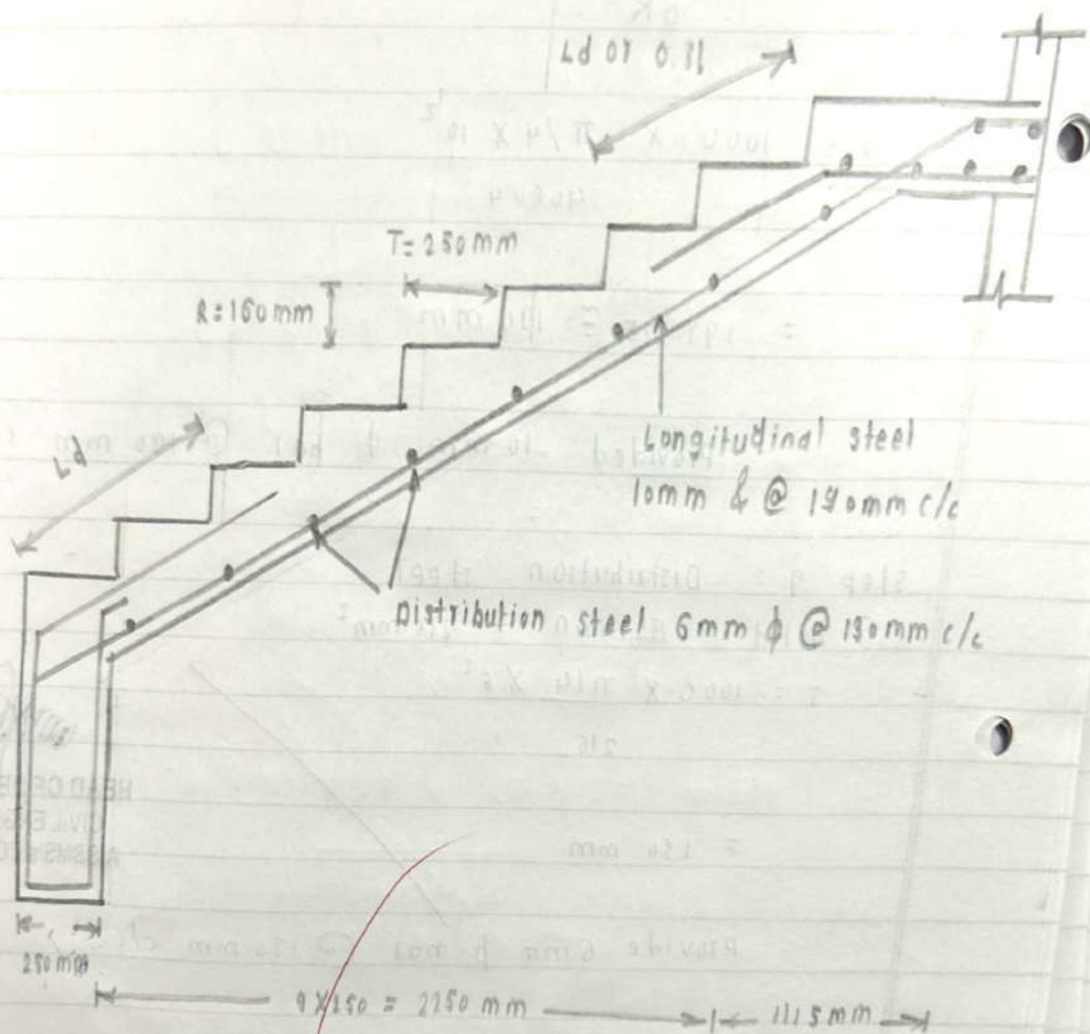
step 10 : check for deflection

$$A_{st \text{ pro}} = \frac{1000 \times \pi/4 \times 10^2}{190}$$

$$= 413.36 \text{ mm}^2$$


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• Reinforcement Detailing :



$$f_s = \frac{0.58 \times 500 \times 406.4}{413.36}$$

$$= 285 \text{ MPa} \approx 290 \text{ MPa}$$

$$\% \text{ pt} = \frac{100 \times 413.36}{1000 \times 160}$$

$$= 0.25 \%$$

$$M.F = 1.4 \quad (\text{From table 4 pg. 31})$$

$$d = \frac{1}{M.F \times BV}$$

$$= \frac{3520}{1.4 \times 20}$$

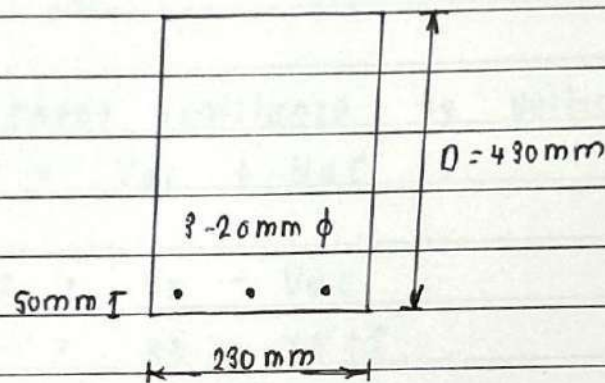
$$= 125.71 \text{ mm} < 160 \text{ mm}$$

$$d \text{ deflection} < d \text{ provided}$$

\therefore safe

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Q.28. A RC beam 230mm wide & 430mm deep is reinforced with 3no - 20mm bars of grade 415 on the tension side with an eff cover of 50mm. Design shear reinforcement. Only 2 no. 20mm bars are available the bar being curtailed. Consisting only of vertical stirrups. Assume M20 grade ultimate shear force = 95 kN



$$V_u = 95 \text{ kN}$$

$$A_{st} = 3 \times \frac{\pi}{4} 20^2 = 942.5 \text{ mm}^2$$

$$\text{EFF depth} = D - \text{eff. cover} = 430 - 50 = 380 \text{ mm}$$

step 1 : Nominal shear stress

$$\tau_v = \frac{V_u}{bd} = \frac{95 \times 10^3}{230 \times 380} = 1.08 \text{ N/mm}^2$$

step 2 : Design shear st. in concrete (τ_c)

$$\% \text{ Pt of steel} = \frac{100 \times 942.5}{230 \times 380} = 1.00 \%$$

τ_c for M20 & $\% \text{ Pt} = 1$ Form

Table 19. Pg. 73

$$\tau_c = 0.62 \text{ N/mm}^2$$

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Step 3: Maximum shear stress τ_{cmax}

For M20 $\tau_{cmax} = 2.8 \text{ N/mm}^2$

Since $\tau_v > \tau_c < \tau_{cmax}$

shear reinforcement is req

Step 4: Shear resistance by concrete (V_{uc})

$$V_{uc} = \tau_c b d = 0.62 \times 230 \times 380$$

$$= 54.18 \text{ kN}$$

Step 5: Shear resistance by vertical stirrups

$$V_u = V_{uc} + V_{us}$$

$$V_{us} = V_u - V_{uc}$$

$$= 95 - 54.18$$

$$= 40.82 \text{ kN}$$

Step 6: Vertical stirrups

$$s_v = 337.82 \text{ mm}$$

check for max spacing

i) $s_v = 0.75 \times d = 0.75 \times 380 = 285 \text{ mm}$

ii) $s_v = 300 \text{ mm}$

iii) $s_v = 394.52 \text{ mm}$

$s_{vmax} = 285 \text{ mm}$ (min ① ② & ③)

$s_v = 330 > s_{vmax}$

\therefore provide 8 mm ϕ two legged vertical stirrups at 285 mm c/c

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Assignment NO - 02
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Q 10]

Given :- Slab thickness = 150 mm

Live Load = 4.0 kN/m²

Floor finish = 1.5 kN/m²

wall thickness = 230 mm

wall height = 2.75 m

$f_{ck} = 20 \text{ MPa}$, $f_y = 415 \text{ MPa}$

Redistribution of moment = 15 %

Step - ① Preliminary data :-

Depth of beam $d = \frac{\text{span}}{12} = \frac{5800}{12} = 483 \text{ mm}$

Assume cover 25 mm & diameter of bar 20 mm

overall depth $D = d + c + \frac{\phi}{2} = 483 + 25 + \frac{20}{2}$

$= 518 \approx 520 \text{ mm}$

$d = 520 - 25 - 10 = 485 \text{ mm}$

∴ Provide beam of size 230 mm x 520 mm

Step - ② Load calculation

Dead Load on Beam AB

Surface Load = (self weight of slab + F.F.)

$w = (0.15 \times 25 + 1.5) = 5.25 \text{ kN/m}^2$

i) equivalent Load from two way slab on beam AB ($l_x = 4 \text{ m}$)

$$= \frac{w l_x}{2} \left[1 - \frac{1}{3\beta^2} \right]$$

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$$\text{when } \beta = \frac{l_y}{l_x} = \frac{5.6}{4} = 1.4$$

$$= \left[\frac{5.25 \times 4}{2} \left\{ 1 - \frac{1}{3 \times 1.4^2} \right\} \right] \times 2$$

$$= 17.43 \text{ kN/m}$$

ii] Dead Load of wall

$$= \gamma_w \times t_w \times h = 20 \times 0.23 \times 2.75$$

$$= 12.65 \text{ kN/m}$$

iii] Self weight of beam = $\gamma \cdot b \cdot (D - t_g)$

$$= 25 \times 0.23 \cdot (0.52 - 0.15) = 2.1275 \text{ kN/m}$$

∴ Dead load on beam AB = $17.43 + 12.65 + 2.12$

$$= \underline{32.2 \text{ kN/m}}$$

$$\text{Live load on AB} = 17.43 + 12.65 + 2.1275$$

$$= 32.2 \text{ kN/m}$$

$$= \left[\frac{w l_x}{2} \left\{ 1 - \frac{1}{3 \beta^2} \right\} \right] \times 2$$

$$LL = \frac{4 \times 4}{2} \left[1 - \frac{1}{3 \times (1.4)^2} \right] \times 2 = 13.3 \text{ kN/m}$$

Check for load case requirement

$$L.L > \frac{3}{4} (D.L) \quad 13.3 > \frac{3}{4} (32.2)$$

$$13.3 > 24.15$$

$L.L \not> \frac{3}{4} D.L$, No load cases are required

D.L on beam of span BC ($l_x = 3\text{m}$)

$$w_{eq} = \left[\frac{w_d l_x}{2} \left\{ 1 - \frac{1}{3\beta^2} \right\} \right] \times 2$$

$$\text{where } \beta = \frac{l_y}{l_x} = \frac{4}{3} = 1.33$$

$$= \frac{5.25 \times 3}{2} \left[1 - \frac{1}{3 \times 1.33^2} \right] \times 2 = 12.8 \text{ kN/m}$$

$$\text{D.L on span BC} = 12.8 + 12.65 + 2.175 = 27.6 \text{ kN/m}$$

$$\text{LL on BC} = \frac{4 \times 3}{2} \left[1 - \frac{1}{3 \times 1.33^2} \right] \times 2 = 9.75 \text{ kN/m}$$

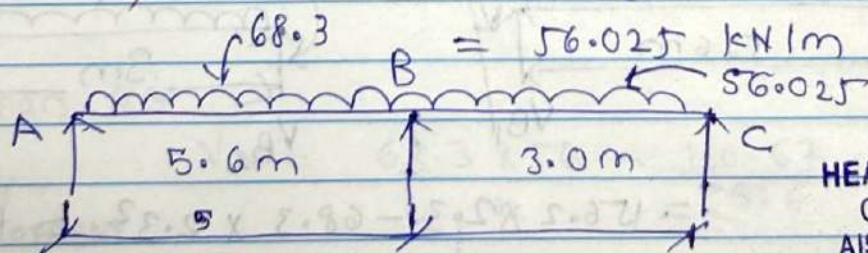
$$\text{L.L} > \frac{3}{4} \text{ D.L} \Rightarrow 9.75 > \frac{3}{4} (27.6) \quad 9.75 > 20.7$$

Load cases does not required

In such cases, considered maximum Load on each span,

$$\begin{aligned} \text{Span AB} \quad w_{u\max} &= 1.5 (\text{DL} + \text{LL}) \\ &= 1.5 (32.2 + 13.33) \\ &= 68.3 \text{ kN/m} \end{aligned}$$

$$\begin{aligned} \text{Span BC} \quad w_{u\max} &= 1.5 (\text{DL} + \text{LL}) \\ &= 1.5 (27.6 + 9.75) \\ &= 56.025 \text{ kN/m} \end{aligned}$$



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| Joint | member | k | $\frac{k}{\sum k}$ | $\text{DF} = \frac{k}{\sum k}$ |
|-------|--------|--|--------------------|--------------------------------|
| B | BA | $0.75 EI / L = 0.75 EI / 5.6 = 0.133 EI$ | 0.383 | 0.35 |
| | BC | $0.75 EI / L = 0.75 EI / 3 = 0.25 EI$ | | 0.65 |

$$FEM = M_{AB} = \pm \frac{wL^2}{12} = \pm \frac{68.3 \times 5.6^2}{12} = \pm 178.5 \text{ kN-m}$$

$$M_{BC} = \pm \frac{wL^2}{12} = \pm \frac{56.025 \times 3^2}{12} = \pm 42 \text{ kN-m}$$

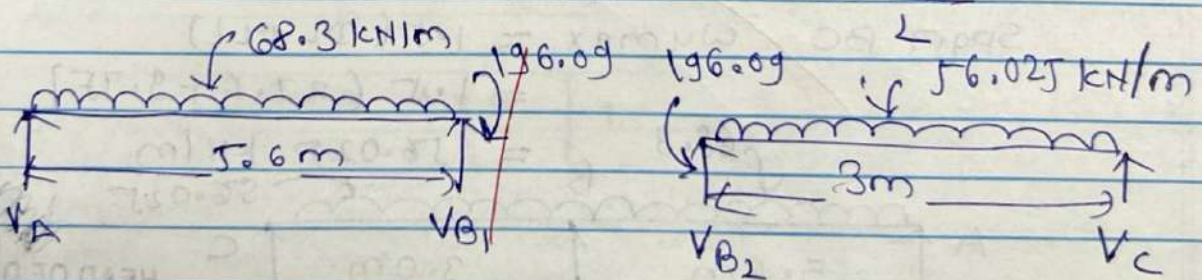
| | | | | | |
|---------|--------|--------|---------|------|-----|
| | A | 0.35 | B | 0.65 | C |
| FEM | -178.5 | +178.5 | -42 | +42 | |
| Balance | +178.5 | CO | 89.25 | -21 | -42 |
| moment | 0 | 267.75 | -63 | 0 | |
| balance | | -71.66 | -133.09 | | |
| | 0 | 196.09 | -196.09 | 0 | |

Support reaction

$$V_A = \frac{wL}{2} - \frac{M}{L} = \frac{68.3 \times 5.6}{2} - \frac{196.09}{5.6} = 156.2 \text{ kN}$$

$$x_{\max} \approx \frac{V_A}{w} = \frac{156.2}{68.3} = 2.3 \text{ m}$$

$$M_{\max} = V_A \cdot x_{\max} - \frac{w \cdot x_{\max}^2}{2}$$



$$= 156.2 \times 2.3 - \frac{68.3 \times 2.3^2}{2} = 178.6 \text{ kN-m}$$

Point of contra flexure

$$x = \frac{2V_A}{w} = \frac{2 \times 156.2}{68.3}$$

$$= 4.6 \text{ m}$$

Span BC ($L=3\text{m}$)

$$V_c = \frac{WL}{2} - \frac{M}{L} = \frac{56.025 \times 3}{2} - \frac{196.09}{3}$$

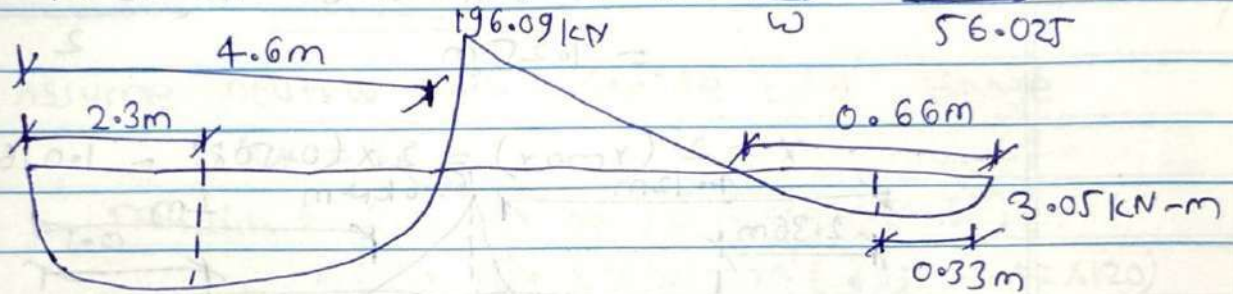
$$= 18.67 \text{ kN}$$

$$x_{\max} = \frac{V_c}{W} = \frac{18.67}{56.025} = 0.333 \text{ m}$$

$$M_{\max} = V_c \cdot x = 18.67 \times 0.333 - \frac{56.025 \times 0.333^2}{2}$$

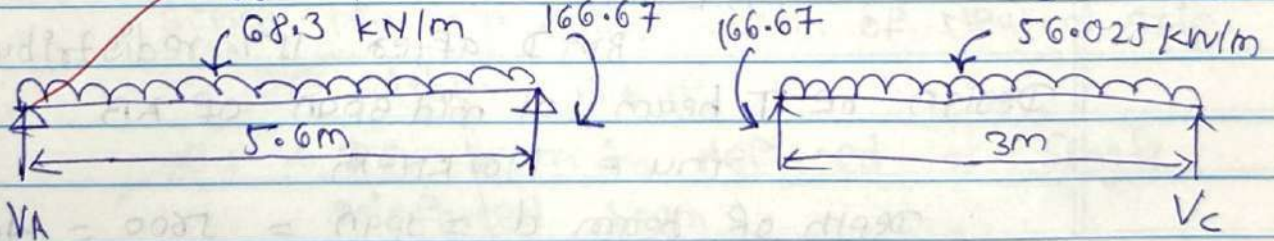
$$= 3.05 \text{ kNm}$$

Point of contraflexure $x = \frac{2V_c}{W} = \frac{2 \times 18.67}{56.025} = 0.66 \text{ m}$



Bending moment after 15% redistribution

\therefore support moment $= 0.85 \times 196.09 = 166.67$



Span AB

$$V_A = \frac{68.3 \times 5.6}{2} - \frac{166.67}{5.6} = 161.5 \text{ kN}$$

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$$x_{\max} = \frac{V_A}{W} = \frac{161.5}{68.3} = 2.36 \text{ m}$$

$$M_{\max} = V_A x_{\max} - \frac{W \cdot x_{\max}^2}{2}$$

$$= 161.5 \times 2.36 - \frac{68.3 \times 2.36^2}{2} = 190.93 \text{ kNm}$$

$$x = \frac{2V_A}{w} = 2(2.636) = 4.72m$$

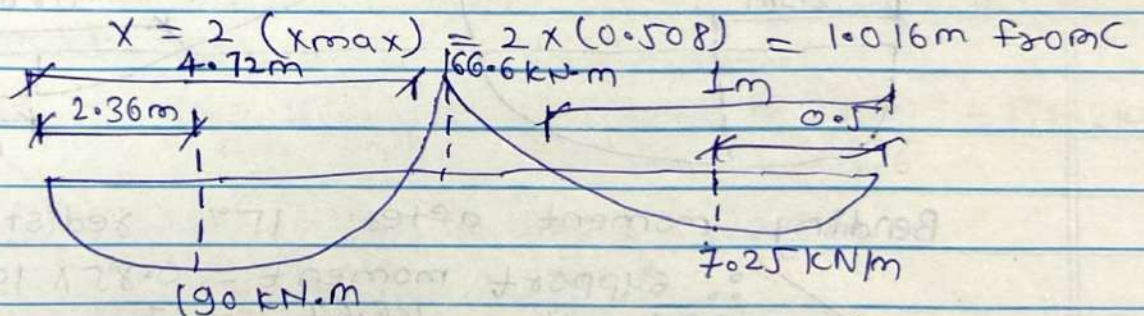
Span BC

$$V_c = \frac{56.025 \times 3}{2} - \frac{166.67}{3} = \underline{\underline{28.5 \text{ kN}}}$$

$$x_{\max} = \frac{V_c}{w} = \frac{28.5}{56.03} = 0.508m$$

$$M_{\max} = V_c \times x_{\max} = \frac{w \cdot x_{\max}^2}{2}$$

$$= 28.5 \times 0.508 - \frac{56.03 \times 0.508^2}{2} = 7.25m$$



BMD after 15% redistribution.

Design of T beam at mid span of AB

$$m_u = 190 \text{ kN-m}$$

$$\text{Depth of beam } d = \frac{\text{span}}{12} = \frac{5600}{12} = 466.67 \text{ mm}$$

Assume cover 25 mm and diameter of bar is 20 mm.

$$D = d + c + \frac{\phi}{2} = 466.67 + 25 + \frac{20}{2} = 501.66 \approx 500$$

$$d = 500 - c - \frac{\phi}{2} = 500 - 25 - \frac{20}{2} = 465 \text{ mm}$$

Assume depth of slab $D_f = 120 \text{ mm}$ and

width of rib = 230mm

effective flange width

$$b_F = \frac{L_0}{6} + b_w + 6 D_F = \frac{0.7 \times 5600}{6} + 230 + 6 \times 120$$
$$= 1603.33 \text{ mm} \approx 1610 \text{ mm}$$

check for width of flange.

$$B_f \leq b_w + \left(\frac{L_1 + L_2}{2} \right) \leq 0.23 + \left(\frac{5.6 + 3}{2} \right) = 4.53 \text{ m}$$

Assume neutral axis coincide with flange

$$X_u = D_F$$

$$M_{u \text{ lim}} = 0.36 f_{ck} b_F D_F (d - 0.42 D_F)$$
$$= 0.36 \times 20 \times 1610 \times 120 (465 - 0.42 \times 120)$$
$$= 516.72 \times 10^6 \text{ N.mm} = 516.72 \text{ kN.m}$$

Since $M_u < M_{u \text{ lim}}$ depth of Neutral axis lies within flange.

$M_u < D_F$ beam is designed as Singly Reinforced beam.

$$\text{Area of steel } A_{st} = \frac{0.5 f_{ck}}{f_y} \left[1 - \sqrt{1 - \frac{4.6 M_u}{f_{ck} b d^2}} \right] b d$$

$$= \frac{0.5 \times 20}{415} \left[1 - \sqrt{1 - \frac{4.6 \times 190 \times 10^6}{20 \times 230 \times 465^2}} \right] \times 230$$
$$= 1679.9 \text{ mm}^2$$

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Provide 2-bars of 20mm ϕ and 3 bars of 25mm ϕ

$$A_{st} = 3 \times \frac{\pi}{4} \times 20^2 + 2 \times \frac{\pi}{4} \times 25^2 = 1924 \text{ mm}^2$$

$A_{st} \text{ provided} > A_{st} \text{ required}$

Provide 3-20mm ϕ bar & 2*25mm ϕ bars
are curtailed

Designed of rectangular section at
Supports (B)

$$M_B = 166.66 \text{ kN-m} < M_{u, \text{lim}}$$

\therefore The Beam is designed as a simply
supported beam,

$$\text{Area of steel } A_{st} = \frac{0.5 f_{ck}}{f_y} \left[1 - \sqrt{1 - \frac{4.6 M_u}{f_{ck} b d^2}} \right] b d$$

$$A_{st} = \frac{0.5 \times 20}{415} \left[1 - \sqrt{1 - \frac{4.6 \times 166.66 \times 10^6}{20 \times 230 \times 465^2}} \right] \times 230 \times 465$$
$$= 1343 \text{ mm}^2$$

Number of 20mm ϕ

$$n = \frac{A_{st}}{A_{\phi}} = \frac{1343}{314.15} = 4.27 \approx 5 \text{ bars}$$

Provide 5 - 20mm ϕ bars

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Given:-

$$b = 400 \text{ mm}$$

$$D = 600 \text{ mm}$$

$$P_u = 1600 \text{ kN}$$

$$SBC = 230 \text{ kN/m}^2$$

$$f_{ck} = 20 \text{ N/mm}^2$$

$$f_y = 415 \text{ N/mm}^2$$

Step-① Load on Footing.

Assume self weight of footing 10% of load on column

$$\text{Load on footing } W_F = 1.1 \times W_u = 1.1 \times 1600 = 1760 \text{ kN}$$

Step-② Area of footing

$$\text{Area of footing} = \frac{\text{Factored load on footing}}{SBC \text{ of soil}}$$

$$A_f = \frac{1760}{230} = 7.65 \text{ m}^2$$

Step-③ size of footing

$$\frac{b}{D} = \frac{B}{L}$$

$$\frac{400}{600} = \frac{B}{L}$$

$$B = 0.667 L$$

$$\text{Area of footing} - A_f = B L$$

$$7.65 = 0.667 L \times L$$

$$L^2 = 11.46 \text{ m}$$

$$L = 3.38 \text{ m}$$

$$B = 0.667 \times 3.38 = 2.25 \text{ m}$$

$$L = 3 \text{ m}$$

$$B = 2 \text{ m}$$

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Area of footing provided

$$A_{Fp} = BL = 2 \times 3 = 6 \text{ m}^2$$

Step-4 upward soil pressure

$$P = \frac{\text{Factored Load on column}}{\text{Area of footing provided}} \\ = \frac{1.5 \times 1600}{6} = \underline{\underline{400 \text{ kN/m}^2}}$$

Step-5 - Depth of footing for Bending moment.

$$M_x = P \left(\frac{L-D}{2} \right) \times \frac{1}{2} \left(\frac{L-D}{2} \right) \times B \\ = P \frac{B}{8} (L-D)^2 = \frac{250 \times 2}{8} (3-0.45)^2 \\ = 406.4 \text{ kN.m}$$

$$M_y = P \frac{(B-b)^2 \times L}{8} = \frac{250 \times 3}{8} (2-0.3)^2 \\ = 270.94 \text{ kN.m.}$$

∴ maximum bending moment

$$M_{\max} = 406.4 \text{ kN.m}$$

Limiting moment of resisting

$$m_{u \text{ lim}} = 0.138 f_{ck} b d^2$$

$$406.4 \times 10^6 = 0.138 \times 20 \times 1000 d^2$$

$$\boxed{d = 384 \text{ mm}}$$

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cover for footing - cl. 26.4.2.2 P No. 46

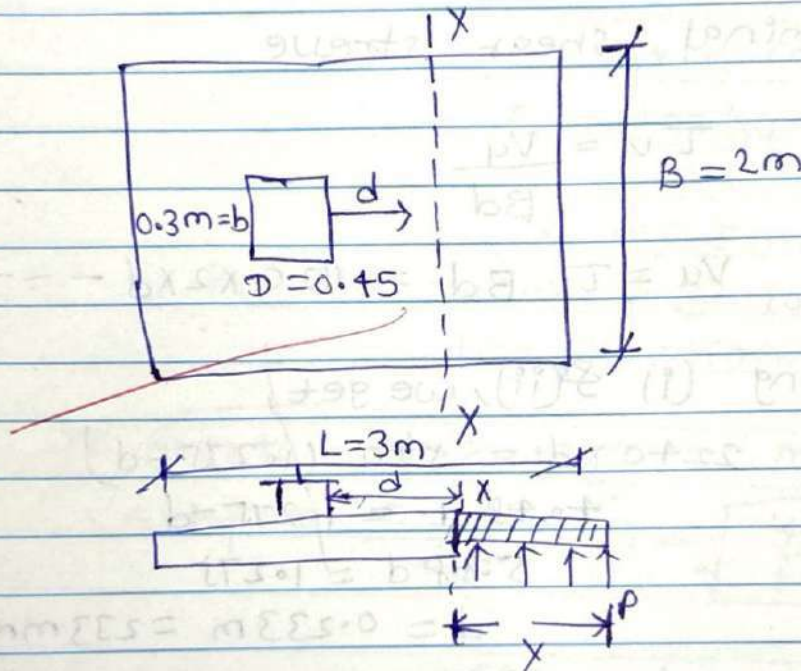
Assume cover for footing = 50 mm

Diameter of bar = 20 mm

$$\text{Overall depth } D = d + c + \phi/2 = 384 + 50 + 20/2 \\ = 444 \text{ mm} \approx 450 \text{ mm}$$

$$\text{Effective cover } d = 450 - \frac{20}{2} - 50 = 390 \text{ mm}$$

Step-6 : check for depth in one way slab



Shear force at critical section

V_u = Upward soil pressure \times Area of strip

$$V_{ux} = p B \left[\left(\frac{L-x}{2} \right) - d \right]$$

$$= 250 \times 2 \left[\left(\frac{3-0.45}{2} \right) - d \right]$$

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$$= 500 (1.275 - d) \quad \text{--- (i)}$$

$$\tau_c \neq k_s \tau_c$$

$$k_s = 0.5 + \beta_s = 0.5 + \frac{b}{D} = 0.5 + \frac{0.3}{0.45} = 1.16 > 1$$

$$k_s = 1$$

$$\tau_c = 0.25 \sqrt{f_{ck}} = 0.25 \sqrt{20} = 1.12$$

$$\tau_v = 1 \times 1.12 = 1.12 \text{ MPa} = 1120 \text{ kN/m}^2$$

Nominal shear stress

$$\tau_v = \frac{V_u}{Bd}$$

$$V_u = \tau_v B d = 1120 \times 2 \times d \quad \text{--- (ii)}$$

Equating (i) & (ii), we get,

$$2240 \times d = 500 (1.275 - d)$$

$$4.48 d = 1.275 - d$$

$$5.48 d = 1.275$$

$$d = 0.233 \text{ m} = 233 \text{ mm} < 390 \text{ mm}$$

Depth of footing provided is safe in one-way shear.

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Step-7 Reinforcement

In long direction $M_u = 406.4 \text{ kN}\cdot\text{m}$

$$A_{stx} = \frac{0.5 f_{ck}}{f_y} \left[1 - \sqrt{1 - \frac{4.6 M_u}{f_{ck} b d^2}} \right] b d$$
$$= \frac{0.5 \times 20}{415} \left[1 - \sqrt{1 - \frac{4.6 \times 406.4 \times 10^6}{20 \times 1000 \times 440^2}} \right] 1000 \times 440$$
$$= 2977.6 \text{ mm}^2$$

Spacing for $20\text{mm } \phi$ bar $A_\phi = \frac{\pi}{4} (20)^2$

$$= 314.15 \text{ mm}^2$$

$$S = \frac{1000 A_\phi}{A_{stx}} = \frac{1000 \times 314.15}{2977.6}$$

$$= 105.5 \text{ mm} \approx 100 \text{ mm c/c}$$

Provide $20\text{mm } \phi$ @ 100 mm c/c along long direction.

In short direction $M_u = 270.94 \text{ kN}\cdot\text{m}$

$$A_{sty} = \frac{0.5 \times 20}{415} \left[1 - \sqrt{1 - \frac{4.6 \times 270.94 \times 10^6}{20 \times 1000 \times 420^2}} \right] \times \frac{1000 \times 420}{1000 \times 420}$$
$$= 1982 \text{ mm}^2$$

Spacing for $20\text{mm } \phi$ bars.

$$S = \frac{1000 \times 314.15}{1982} = 158.5 \text{ mm} \approx 150 \text{ mm}$$

Provide $20\text{mm } \phi$ @ 150 mm c/c

Reinforcement in the central band of short direction.

Reinforcement in central band width = 2
Total Reinforcement in short direction $B+1$

$$B = \frac{\text{longer side of footing}}{\text{shorter side of footing}} = \frac{L}{B} = \frac{3}{2} = 1.5$$

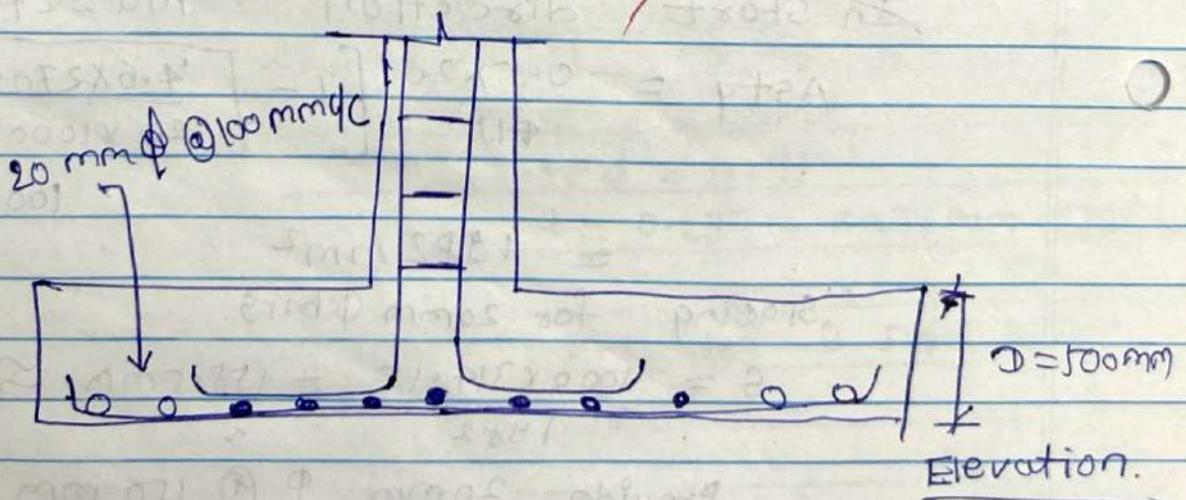
$$\frac{A_{stcb}}{1982} = \frac{2}{1.5+1}$$

$$A_{stcb} = \frac{2 \times 1982}{2.5} = 1585.6 \text{ mm}^2$$

spacing of 20 mm ϕ bar

$$S = \frac{1000 \times 314.15}{1585.6} = 198.13 \text{ mm} \approx 190 \text{ mm}$$

Provide 20 mm ϕ @ 190 mm c/c in
centre band of short direction



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Department of Civil Engineering Assignment No – 1 (Unit I, II & III)

Class- TE

Date of Assignment- 10/04/2023

Sub: DRCS

Date of Submission -

| Batch | Question Nos |
|---|-----------------|
| Roll No: 18CV027, 19CV086, 20CV053, 3, 62, 41, 44, 47, 25, 15, 58, 17. | 1, 2, 3, 4 |
| Roll No: 20CV016, 1, 32, 7, 34, 61, 28, 63, 35, 54, 64, 36. | 5, 6, 7 & 8 |
| Roll No: 20CV033, 24, 9, 57, 19, 4, 51, 21, 8, 6, 38, 40. | 9, 10, 11 & 12 |
| Roll No: 20CV010, 31, 37, 43, 60, 50, 52, 46, 42, 22, 13, 27. | 13, 14, 15 & 16 |
| Roll No: 20CV011, 14, 30, 5, 56, 18, 12, 55, 59, 20, 2, 49. | 17, 18, 19 & 20 |
| Roll No: 21CV0306, 301, 308, 307, 314, 309, 310, 312, 313, 302, 303, 311. | 21, 22, 23 & 24 |
| Roll No: 21CV0305, 304, 315, 20CV023, 29, 48. | 25, 26, 27 & 28 |

CO Statement:

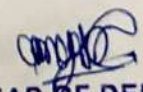
CO1: Apply relevant IS provisions to ensure safety and serviceability of structures, understand the design philosophies and behavior of materials: steel & concrete.

CO2: Recognize mode of failure as per LSM and evaluate moment of resistance for singly, doubly rectangular, and flanged sections.

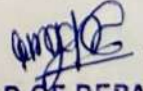
CO3: Design & detailing of rectangular one way and two-way slab with different boundary conditions

Taxonomy Level: (For eg Remember/Understand/Apply/Analyze/Evaluate/Create)

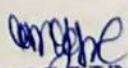
| Sr. No. | Question | Taxonomy Level | CO | Marks |
|---------|--|----------------|-----|-------|
| 1 | Draw stress strain curves for concrete in LSM and explain stress and strain values associated with curves. | Understand | CO1 | 2 |
| 2 | A RCC Beam of size 230mm x 450mm is reinforced with 4 nos' of 16mm diameter having effective span of | Evaluate | CO2 | 4 |


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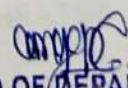
| | | | | |
|----|---|------------|-----|---|
| | 4.5m and clear cover to reinforcement is 30mm, determine the safe UDL excluding self wt the beam can carry using LSM. Use M20 and Fe415. | | | |
| 3 | Design the first flight of a dogged legged staircase of residential building with following data Floor to floor height – 3.3m Rise = 150mm, Tread = 300mm Width of Landing = 1.25m Material M20 and Fe415 Assume suitable data if required Draw details of reinforcement. | Create | CO3 | 4 |
| 4 | A RC beam, 230mm wide and 450mm deep is reinforced with 3nos- 16mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (for full tension steel available), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 70kN. | Create | CO3 | 5 |
| 5 | Explain situations where Doubly reinforced beam become necessary and what is the role of compression reinforcement. | Understand | CO1 | 2 |
| 6 | A simply supported one way slab is to be designed for an effective span of 3.5m, the superimposed load including finishing is 5 kN/m ² , assuming the MF = 2.3. design the slab and draw the sectional elevation showing details of reinforcement. | Create | CO2 | 4 |
| 7 | Design the second flight of a dogged legged staircase of residential building with following data Floor to floor height – 3.3m Rise = 150mm, Tread = 300mm Width of Landing = 1.25m Material M20 and Fe415 Second flight start from midlanding level to first floor level. Assume suitable data if required Draw details of reinforcement. | Create | CO3 | 4 |
| 8 | A RC beam, 230mm wide and 450mm deep is reinforced with 3nos- 16mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (only 2nos 16mm bars are available, the bar being curtailed), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 75kN. | Create | CO3 | 5 |
| 9 | Explain Under reinforced, over reinforced and Balanced section with suitable stress diagram used in LSM. | Understand | CO1 | 2 |
| 10 | Design a RC slab for a store room having clear dimensions as 4.77 x 3.77m. the slab is to be casted | Create | CO2 | 4 |

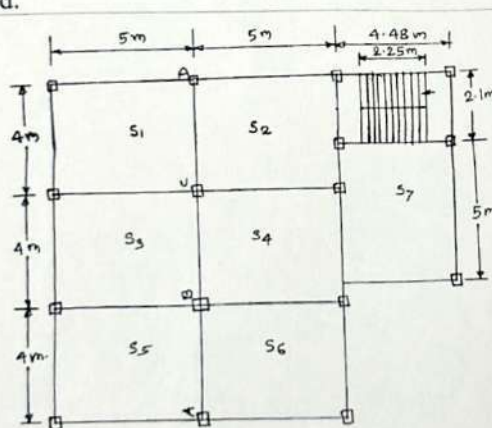

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| | | | | |
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| | monolithically over the 230mm wide beam with corners of slab held down. The slab carries live load of 3 kN/m^2 and floor finish of 1 kN/m^2 . Use M20 and Fe415, show details of reinforcement. | | | |
| 11 | Design dog legged staircase for plinth level to the midlanding level for the following data: Floor to floor height = 3450mm Rise = 150mm; Tread = 300mm No. of risers in first flight = 11 Width of stair = 1m Clear landing width at midlanding and first floor level = 1m At plinth level, plinth beam is provided below first step. Show detailed load calculations and reinforcement details. | Create | CO3 | 4 |
| 12 | A RC beam, 230mm wide and 450mm deep is reinforced with 3nos- 20mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (only 2nos 20mm bars are available, the bar being curtailed), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 85kN. | Create | CO3 | 5 |
| 13 | Explain the term 'moment of resistance' and its significance in the design of flexural member. | Understand | CO1 | 2 |
| 14 | A reinforced concrete rectangular section of size $300 \times 600\text{ mm}$ effective depth is reinforced by 3 bars of 20 mm diameter. The effective span of the beam is 6 m. Find i) Depth of neutral axis. ii) Type of the section. iii) Moment of resistance. iv) Uniformly distributed ultimate load. Materials: M20 concrete Mix. and Fe415 grade reinforcement Method of Design: - L.S.M. | Remember | CO2 | 4 |
| 15 | Design dog legged staircase for plinth level to the midlanding level for the following data: Floor to floor height = 3250mm Rise = 150mm; Tread = 250mm Width of stair = 1m At plinth level, plinth beam is provided below first step. Show detailed load calculations and reinforcement details. | Create | CO3 | 4 |
| 16 | A RC beam, 230mm wide and 450mm deep is reinforced with 3nos- 20mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (only 2nos 20mm bars are available, the bar being curtailed), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 85kN. | Create | CO3 | 5 |


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| | | | | |
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| 17 | Explain stress strain relationship for concrete according to the assumptions in limit state of collapse in flexure. | | CO1 | 2 |
| 18 | Determine the moment of resistance by LSM for flanged beam section detailed as below i) Effective flange width = 1200 mm. ii) Width of rib = 300 mm iii) Thickness of flange = 100 mm. iv) Effective depth = 560 mm. v) Tension steel = 4 No. 25 mm diameters Materials: - M20 grade of concrete. Fe415 grade of reinforcement. | Evaluate | CO2 | 4 |
| 19 | Design dog legged staircase for midlanding level to the first-floor level by using following data: Floor to floor height = 300mm Rise = 150mm; Tread = 250mm Width of stair = 1m Landing is on both side. Show detailed load calculations and reinforcement details. | Create | CO3 | 4 |
| 20 | A RC beam, 230mm wide and 450mm deep is reinforced with 3nos- 20mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (for full tension steel available), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 85kN. | Create | CO3 | 5 |
| 21 | Elaborate stress strain distribution diagram with all parameters for the design of RCC section of flexural member using LSM. | Create | CO1 | 2 |
| 22 | Determine the moment of resistance by LSM for flanged beam section detailed as below i) Width of rib = 230 mm ii) Effective flange width = 1250 mm iii) Thickness of flange = 120 mm iv) total Depth = 600mm with clear cover 25mm v) Tensile steel = 6 No. of 20mm diameter bars vi) Use M25 grade of concrete and Fe 415 grade of steel. | Evaluate | CO2 | 4 |
| 23 | Design the second flight of a dogged legged staircase of residential building with following data Floor to floor height – 3.1m Rise = 150mm, Tread = 300mm Width of Landing = 1.25m Material M20 and Fe415 Second flight start from midlanding level to first floor level. Assume suitable data if required Draw details of reinforcement. | Create | CO3 | 4 |
| 24 | A RC beam, 230mm wide and 450mm deep is | Create | CO3 | 5 |


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| | | | | |
|----|---|----------|-----|---|
| | reinforced with 3nos- 20mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (for full tension steel available), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 95kN. | | | |
| 25 | What is partial safety factor used in the design of RCC section? Why they are called as partial? Give the Partial safety factors for stresses in Steel and concrete | Remember | CO1 | 2 |
| 26 | The central line plan of building is as shown in figure. 1 Classify the slabs structurally and design the slab S1 and S2 only for flexure by L.S.M. Draw neat sketches showing details of reinforcement. Take live load = 4 kN/m ² . Floor finish = 1.5 kN/m ² . Materials: - M25 grade of concrete Fe415 grade of reinforcement Assume suitable data if required. | Create | CO2 | 4 |
| 27 | Design flight I of the stair case as shown in fig. 1 for the following data: a) Floor to floor height = 3.2 m. b) Rise = 160 mm, Tread = 250 mm. c) Width of landing = 1.115 m. d) Width of stair = 1m. e) Gap between flights = 100 mm. Show detailed load calculation and reinforcement details. At ground floor, plinth beam is provided below 1st step. Assume suitable data if required.  | Create | CO3 | 4 |
| 28 | A RC beam, 230mm wide and 450mm deep is reinforced with 3nos- 20mm bars of grade Fe415, on the tension side, with an effective cover of 50mm. Design shear reinforcement (only 2nos 20mm bars are available, the bar being curtailed), consisting only of vertical stirrups. Assume M20 grade of concrete, ultimate shear force = 95kN. | Create | CO3 | 5 |

Remarks:

Amrinder
HEAD OF DEPARTMENT

AK
Course Coordinator

SRP
Module Coordinator

Rudali
PAC Coordinator

H.O.D
[Signature]
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22-23

Department of Computer Engineering Assignment – II

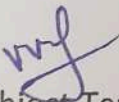
Subject: 410243: Blockchain Technology

Class: BE A & B


Date: 31/10/2022

Unit: 4,5,6

1. What is Crypto currency? Explain in brief.
2. State and explain the advantages and disadvantages of crypto currency.
3. Explain the concept of smart contracts. How it differs from traditional systems?
4. What are different types of access modifiers in solidity?
5. List and explain the applications of blockchain Technology.
6. How Blockchain technology can be used in finical and banking services.
7. Write short notes on
 1. Metamask
 2. DAapps
 3. Use of Blockchain technology in Government


Subject Teacher

Vandana V. Navale


H.O.D.
Computer Engg Dept
AISSMS COE Pune

Blockchain Technology
Assignment - 2.

26/10/20

① What is cryptocurrency? Explain in brief.

① Cryptocurrency is a kind of digital asset that enables safe, transactions using distributed ledger or blockchain technology.

② Digital or virtual currencies that operate on cryptographic principles are known as cryptocurrencies.

③ As implied by the name, they are not substantial or have no actual presence.

④ They are essentially, a collection of computer programming codes, but offers greater usefulness & security than many current currencies.

⑤ In case of cryptocurrencies, the ledger records of all transactions made & created using those currencies on the network. Each user on certain blockchain, will have distinct account id or address. Currency is debited & credited to this account.

The cryptocurrency should be:

a) Cost effective to issue.

b) Available immediately

c) Governed & regulated.

d) Secure & immutable.

e) Trusted - backed by a lender of last resort.

f) Free from fractional reserve banking in crypto-form.

g) Have standards to enable interoperability.

② state & explain advantages & disadvantages of cryptocurrency.

Advantages -

① Compared to current banking system, cryptocurrencies allow extremely quick transactions.

② There are no payment restrictions. The user is able to send money at any moment, from any location to any location.

③ Transaction performed using cryptocurrencies should be anonymous, neither the person nor recipient can be determined.

④ Immediate asset availability - the cryptocurrency will be available immediately for consumers and business to spend without any waiting period.

⑤ It boosts the economic growth.

Disadvantages -

① Despite the fact that demand for cryptocurrency is rapidly rising, several governments have not officially endorsed transactions involving cryptocurrency.

② Governments cannot regulate cryptocurrencies, but they may ban them & make transactions involving them unlawful.

③ Deflation is one of the drawback of cryptocurrency.

③ Explain concept of smart contracts. How it differs from traditional system?

① The concept of smart contracts was proposed by Nick Szabo in 1994.

② Smart contract is simple computer programme that makes it easier for two parties to exchange any asset. These contracts can be created by any user on the Ethereum network.

③ The terms & conditions that were mutually agreed upon parties make up the majority of the contract.

④ A smart contract is computer protocol intended to digitally facilitate, verify or enforce the negotiation or performance of contract.

⑤ The main advantage of smart contract is that they cannot be changed once they have been performed, & every transaction carried out on top of one is forever recorded - it is immutable.

④ What are different types of access modifiers in Solidity?

① Public -

The public element can be inherited & can be accessed by external elements. All can access a public element.

② Private -

The private element doesn't get inherited & can't be accessed by external elements. It can be accessed

from the current contract instance only.

③ Internal -

The internal element can be inherited but can't be accessed by external elements. Only the base contracts & derived contract can access internal element.

④ External -

The external element can be inherited but it can be accessed by external elements. Current contract instance can't access external element, it can be accessed externally only.

⑤ List & explain application of blockchain technology.

① Money transfer -

Money transfer using blockchain technology is less expensive & faster than using existing money transfer services.

② Insurance -

Using smart contracts on a blockchain can provide greater transparency for customers & insurance providers. Using smart contracts can speed up process for claimants to receive payments.

③ Real estate -

Real estate transactions require a ton of paperwork to verify financial information & ownership & titles to new user/owners. Using blockchain technology to record real estate transactions can provide more secure & accessible means of verifying ownership.

④ Healthcare -

Blockchain can have a big impact on healthcare using smart contracts. These smart contracts mean that a contract is made between 2 parties without needing any intermediary. Health records are encoded via blockchain so they are accessible to primary healthcare providers with key.

⑤ online identity verification -

Blockchain can centralize the online identity verification process so users only need to verify their identity once using blockchain & they share this identity with service providers they want.

⑥ How blockchain technology can be used in financial & banking services?

① For the banking & financial services markets, the blockchain technologies provide various attractive features.

② Blockchain smart contracts or bitcoins are used in financial & banking services to make transactions secure.

a) Private securities -

It is very expensive to take company public. The stock exchanges list company shares for secondary market to function securely with trades settling & clearing in timely manner. These shares can then be purchased & sold in secondary market that sits on top of blockchain. eg. medici, Block Stream, Bitshares, etc.

b) Insurance -

Traditional insurance policies are often processed on paper contracts, which mean claims & payments are error prone & often require human supervision.

As a kind of distributed ledger of blockchain, it improves insurance industry efficiency from four aspects: fraud elimination, claim automation, data analysis with IoT & reinsurance.

(7) Write short note on -

a) metamask b) DApps c) Use of blockchain technology in government.

a) metamask -

① metamask is a web browser add-on which enables anyone to run the Ethereum DApps without running the ethereum full node.

② Metamask add-on for chrome can added from chrome web store or from 'metamask.io' website. This metamask add-on provides a user interface for interacting with blockchain.

③ Metamask provides a vault account for each user, this vault secures, stores & tightly controls access to tokens, password, certificates & overelements in blockchain apps.

④ Metamask will provide a group of 12 words known as wallet seed while installing it. It is user credential & must be stored somewhere safe.

b) DApps -

① DApps is a decentralized applications.

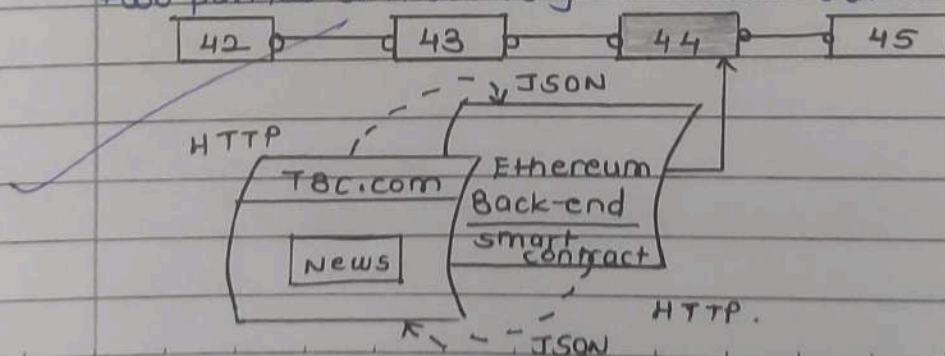
② DApps are programs exist & run on a blockchain or peer-to-peer network instead of single computer.

③ DApps controls the single authority.

④ DApps which often build on ethereum platform can be developed for variety of purposes including gaming, finance, & social media.

⑤ With DApps users don't need to submit their personal information to use the function the app provides.

⑥ DApps use smart contracts to complete transaction between two parties without rely on central authority.



c) Blockchain technology used in government -

① Blockchain technology plays vital role in development of social & governmental activities for e-governance.

② In government sector verifying authenticity of document can be done using blockchain which eliminates the need for centralized authority.

③ The document certification service helps in proof-of-ownership, proof-of-existence & proof-of-integrity of documents.

④ Blockchain technology used in government sector such as individual identity, land & property registry, birth marriage certificates, etc.



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Department of Computer Engineering

Assignment I (AY: 2022-23 Term II)

Class: BB B Course: Deep Learning Date of Display: 15-03-2023 Submission Date: 28-03-2023

Mention Cognitive Level: Remember, Understand, Apply, Analyze, Evaluate, Create

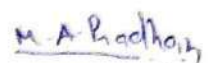
| Q ns No | Question | Connected CO | Cognitive Level |
|---------------|--|-----------------|--------------------|
| Q1 | Define machine learning and deep learning with example. | CO1 | Remember |
| Q2 | Write short note on 1) Bias variance tradeoff 2) Hyper parameters | CO1 | Understand |
| Q3 | Explain Applications, advantage and challenges of deep learning. | CO1 | Understand |
| Q4 | Explain the Role of Activation Functions in a Neural Network? Understand | CO2 | Understand |
| Q5 | Explain Back propagation? | CO2 | Understand |
| Q6 | Describe Vanishing and Exploding Gradients? | CO2 | Understand |
| Q7 | Write short notes on tiled convolution as a variant of convolution function. | CO3 | Understand |
| Q8 | Describe Pooling on CNN, and How Does It Work? | CO3 | Understand |

| | | | |
|----|--|-----|------------|
| Q9 | Explain CNN work procedure with components of CNN? | CO3 | Understand |
|----|--|-----|------------|

Note: A signed copy to be kept in the department as a specimen copy. Delete below part for student copy.


Course Teacher


Academic Coordinator


Module Coordinator


Head of Department

H.O.D.
Computer Engg Dept
AISSMS COE Pune

Tejas Nitin Shinkar
19CS052
Deep Learning.

comp B.

23
30

Assignment - 1.

Q.1) Define Machine Learning and deep with example.

→ Machine Learning:

— It is a form of computer science technology whereby the machine itself has a complex range of knowledge that allows it to take certain data inputs and use complex statistics analysis strategies to create output values that fall within a specific range of knowledge, data or information.

— Machine learning focuses on the development of computer programs that can access data and use it to learn for themselves.

— The goal is for computers to learn how to use data and information to be able to learn automatically, rather than requiring humans to intervene or assist with the learning process.

Example:

— Image Recognition.

— Label an X-Ray as Cancerous or not

— Assign a name to a photographed face

— Recognise handwriting by segmenting a single letter into small images.

Deep Learning:

— To define deep learning is a big challenge for many because it has changed forms slowly

over the past decade one useful definition states that deep learning deals with "Neural network" with more than two layers.

- Neural network has to progress architecturally from earlier network styles.
- following are some of aspects of NN:
 - i) m-cops are more neurons than previous network.
 - ii) More complex ways of connecting layer/neurons in NN's.
 - iii) Explosions in amount of computing power available to train.

Examples:

✓ 3 To identify objects from satellites that locate areas of interest & identify safe or unsafe zones for troops.

2. Write short note on:

- i) Bias-Variance tradeoff.
- ii) Hyper parameters.

⇒

i) Bias-Variance-tradeoff:

✓ Depending on model at hand, performance that lies b/w overfitting & underfitting is more desirable. This tradeoff is most integral aspect of machine learning models. fulfill their purpose when they generalise well. Generalization is bound by two undesirable outcomes - high bias & high variance. Detecting whether model

suffers from either one is sole responsibility of the model developer.

2. Hyper parameters:

- Hyper parameters are parameters whose values control the learning process and determine values of model parameters so that a learning algorithm ends up learning.

- The prefix 'hyper' suggest that they are 'top-level' parameters that controls learning process and model parameters that results from it.

- Examples of Hyperparameters in ML:

- i) Model architecture
- ii) Learning rate
- iii) No. of epochs
- iv) No. of branches in decision tree.

Q.3) Explain applications, advantage & challenges of deep learning.

⇒

• Applications of deep learning:

- Computer vision: Used in image & video recognition, object detection & other computer vision task.

- Natural language processing: Used in natural language understanding, machine translation sentiment analysis & other NLP tasks.

- Speech recognition: Used in speech recognition, voice identification and voice synthesis.
- Predictive analysis: Used to analyse historical data & make predictions about future events.

• Advantages of deep learning:

- Future Generation Automation:
 - DL Algorithms can generate new feature from among a limited no. locate in training dataset.
- Better self learning capabilities:
 - The multiple layers in deep neural networks allow models to become more efficient at learning complex features.
- Cost effectiveness: While training deep learning models can be cost intensive, once trained, it can help business cut down on unnecessary expenditure.

✓ Challenges:

- Lots of lots of data
- Overfitting in neural networks.
- Hyperparameter optimization
- Lack of flexibility & multitasking:

Q.4) Explain the role of Activation function in a neural network.

- Also known as transfer function, used to map input nodes to o/p nodes in contain.
- The activation function is the most imp factor in NN which decides whether or not a neuron will be activated or not and transferred to next layer.
- The input to the activation function is sum which is defined by the following equation.

Q.5) Explain Back propagation?

- Back propagation network algorithm is applied to multilayer feed forward network consisting of processing elements.
- Networks connected to back propagation learning algorithm are called BPN.
- The basic concept for weight update is that where error is propagated back to hidden unit.
- Back propagation learning is applicable on any feed forward network architecture.
- Slow rate of convergence & local minima problems are its weakness.

Q.6) Describe vanishing & exploding gradients.

i) Vanishing gradients:

This occurs when gradient is too small. As we go backwards during backpropagation, the gradient continues to become smaller, causing the earlier layers in network to learn more slowly than layers.

ii) Exploding Gradients:

— This happens when the gradient is too large. This creates an unstable model.

— In this case, model weights will grow too large, model weights will grow. ~~lowering~~ a dimensional reduction technique & this helps to minimize complexity within the model.

Q.7) Write short note on tiled convolution as a variant of convolution function.

⇒ Tiled convolution is a variant of convolution function commonly used in DL unlike traditional convolution where the same filter is applied to entire i/p image. These regions are often referred to as 'tiles' hence named tiled convolution. The main advantage of tiled convolution is that it allows neural network to learn diff. features at diff. loc. of I/p images.

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L2-23

Q.8) Describe pooling on CNN and how does it work?
Pooling is commonly used operation in convolutional neural network (CNN) used to down sample feature maps obtained from the convolutional layer. The main goal of pooling is to reduce the spatial dimensions of the feature while retaining important information.

- In pooling a small window typically 2×2 / 3×3 is applied to feature map & a pooling function is applied to values that windows.

- The most common pooling functions are max pooling value within the window is retained while in average pooling average values in window is taken.

- It also helps in reducing overfitting as it removes the redundant info. from feature maps.

Q.9) Explain CNN work procedure with component of CNN.

⇒ Convolutional Neural Networks (CNN's) are type of deep neural network that are widely used in computer vision tasks such as image classification, object detection & segmentation. The key components of a CNN include convolutional layers, pooling layers, activation functions & fully connected layers.

Working procedure:

- i) Input
- ii) Convolutional layers
- iii) Activation functions
- iv) Fully connected layers
- v) Output.

✓ 3



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Department of Electrical Engineering

Assignment No - 1 (Unit I & Unit II)

Class-BE

Date of Assignment- 07/09/2022

Sub: HVDC and FACTS
Date of Submission -16/09/2022

CO Statement:

CO1: Compare EHVAC and HVDC systems and to describe various types of DC links (Understand/Apply)

CO2: Analyze harmonics in HVDC systems and to list HVDC system layout (Analyze/Understand)

CO3: Discuss various methods for the control of HVDC systems (Create/Understand)

| No. | Question | Marks |
|-----|--|-------|
| 1 | Explain rectifier operation in HVDC systems with ignition delay angle & commutation overlap angle. Derive equations for ΔV_d and V_d . | 10 |
| 2 | Explain inverter operation in HVDC systems with extinction angle and overlap angle. Derive necessary equations. | 6 |
| 3 | Compare CIA, CC and CEA controls of HVDC systems. | 10 |
| 4 | Give the schematic diagram of a 12-pulse converter and sketch the current waveform of the transformer secondary line current. | 6 |
| 5 | Draw schematics of multi-terminal HVDC & state applicability of each. | 5 |
| 6 | Explain protection against overvoltages in HVDC systems. | 8 |
| 7 | Compare current source converter & voltage source converters. | 8 |
| 8 | Compare classical HVDC system with VSC based HVDC system. | 7 |


Remarks:


Course Coordinator


Module Coordinator


PAC Coordinator

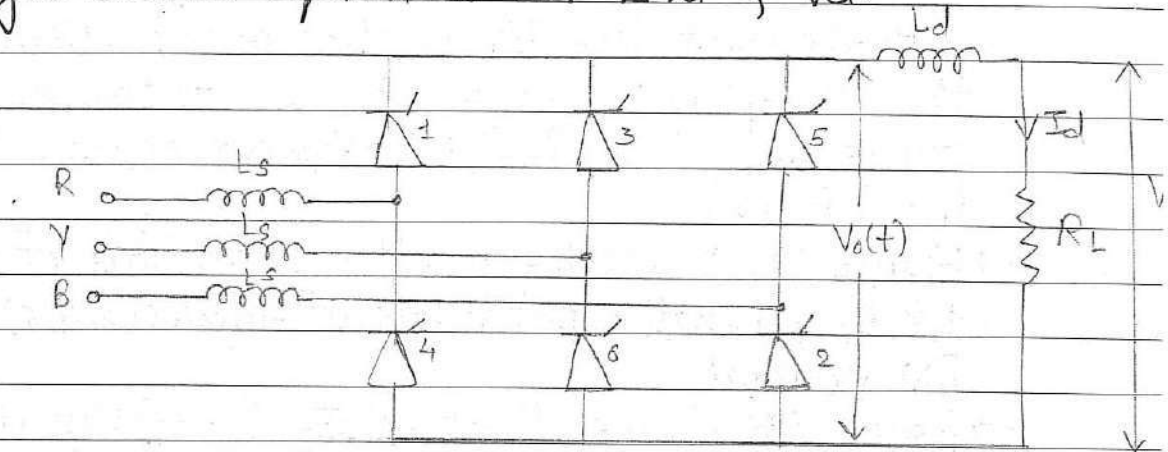

H.O.D


Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune

HVDC & FACTS

Assignment NO:-01

Q.1) Explain rectifier operation in HVDC systems with ignition delay angle & commutation overlap angle. Derive equations for ΔV_d & V_d .



Schematic diagram of 6 pulse bridge Converter.

- The source reactance introduces overlap of currents due to simultaneous conduction of SCRs to be commutated during the commutation period ' μ '.
- During the commutation period, a pair of commutating valves V_1, V_3 ; V_3, V_5 ; V_5, V_1 conduct together in the positive group of the converter & V_2, V_4 ; V_4, V_6 ; V_6, V_2 conduct simultaneously in the negative group, where ' P ' indicates the firing instant.
eg:- ' P_1 ' is firing instant of the valve '1'.
- ' S ' indicates end of a commutation & at S_5 the valve 5 stops conducting.
- ' C ' indicates instant of crossing of phase voltages.
' C_1 ' indicates positive crossing of B & R phases.
- At instant P_1 , when valve ' V_1 ' is fired, current in the valve '1' slowly increases & current in the valve '5' slowly decreases.

slowly decreases because of inductance of the source. Valves 1 & 5 will be conducting simultaneously in the positive group in addition to valve 6' in the negative group.

→ During the commutation process, voltage of the cathode w.r.t. the T/M neutral is the average of the corresponding phase voltages of the conducting valves i.e., $(V_{nR} + V_{nB})/2$, which is shown in dotted line (P₁S₅).

→ Figure 2'a illustrates positive potentials of the cathode (1, 3, 5) & negative potentials of anodes (2, 4, 6) w.r.t T/M neutral.

→ Figure 2'b shows direct voltage $[V_o(t)]$ output waveform, which is combination of corresponding line to line voltages appearing on output side of bridge. The mean direct voltage is average of $V_o(t)$.

→ The potential across valve 1 is shown in Fig. 2'b.

When valve 1' completes a commutation to valve 3 at 'S₁', the voltage across it follows the line to line voltage (V_{RY}) betⁿ R & Y phases from 'S₁' until 'P₄' is reached.

→ Betⁿ P₄ & S₂, the commutation from valve 2' to valve 4' reduces to negative potential of R' phase & causes the first voltage dent in the valve voltage by following the average voltage curve of $(V_{nB} + V_{nR})/2 - V_r = -\frac{3}{2} V_y$.

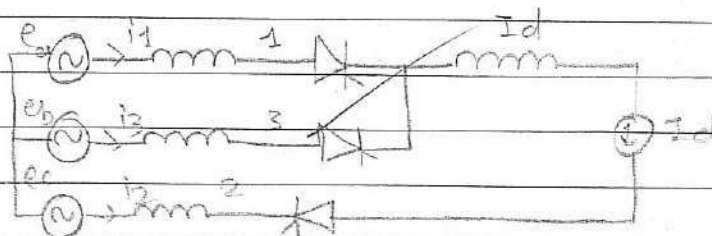
→ The firing of valve 6' at 'P₅' increases the potential of the common cathode to the average voltage of phases 'Y' & 'B'. This causes a second commutation dent

- at the end of which (at s_3) the common cathode follows the potential of 'B' due to conduction of valve '5' & voltage across the valve 'I' will follow V_{RB} .
- Finally commutation from valve '4' to valve '6' (P to Φ_4) increases the negative potential of anode of valve '1' & produces another voltage dent.
- Figure 2c' indicates AC line current in 'R-phase' 2 d.e' give valve currents from 1 to 6.

- * For operation with overlap:-
There are 3 modes of operation:
 $\mu < 60^\circ \Rightarrow \text{Mode 1} = T_2 \text{ \& } T_3 \text{ conducting}$
 $\mu > 60^\circ \Rightarrow \text{Mode 2} = T_3 \text{ conducting}$
 $\mu = 60 \Rightarrow \text{Mode 3} = T_3 \text{ \& } T_4 \text{ conducting}$

- i) Mode 1:- T_2 & T_3 are conducting.
 → When valve 3 is fired, then '3' will overlap with 1 & it will be 3 valve conduction periods i.e., 1, 2, 3

During overlap 1, 3 valve will conduct from top & 2 from bottom,



$$e_b - e_a = L_c \frac{di_3}{dt} - L_c \frac{di_1}{dt}$$

$$= L_c \left(\frac{di_3}{dt} - \frac{di_1}{dt} \right)$$

(4)

The LHS is called line commutating emf,
 $e_b - e_a = \sqrt{3} V_m \sin \omega t$

$$\therefore \sqrt{3} V_m \sin \omega t = L_c \left(\frac{di_3}{dt} - \frac{di_1}{dt} \right)$$

During overlap,

$$I_d = I_1 + I_3$$

$$0 = \frac{di_1}{dt} + \frac{di_3}{dt}$$

$$\frac{di_1}{dt} = -\frac{di_3}{dt}$$

$$\sqrt{3} V_m \sin \omega t = L_c \left(\frac{di_3}{dt} - \frac{di_1}{dt} \right)$$

$$\sqrt{3} V_m \sin \omega t = L_c 2 \frac{di_3}{dt}$$

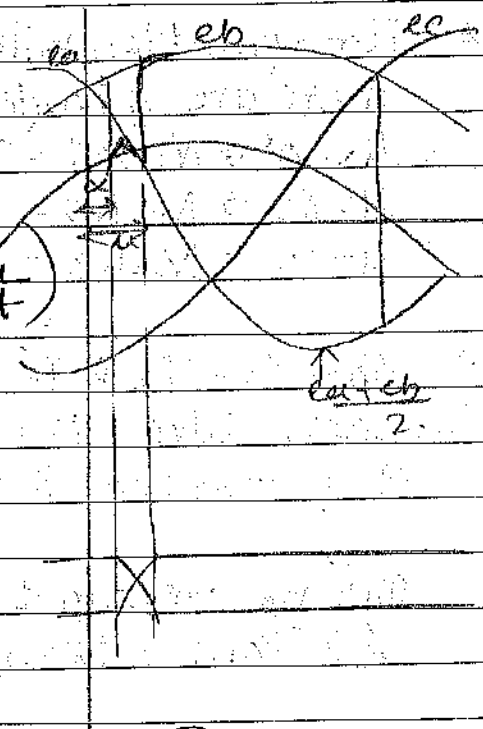
On integrating both sides,

$$\sqrt{3} V_m \int_{\alpha/\omega}^{\omega} \sin \omega t dt = 2 L_c \int \frac{di_3}{dt}$$

$$I_3 = \frac{\sqrt{3} V_m}{2 L_c \omega} [\cos \alpha - \cos \omega t] \quad \text{--- (I)}$$

Average direct voltage,

$$V_d = \frac{3 \sqrt{2} E}{2 \pi} [\cos \alpha + \cos (\alpha + \mu)]$$



$$A = \int_{\alpha}^{\alpha+\mu} \left(\frac{e_b - e_c}{2} \right) d\omega t = \frac{\sqrt{3} V_m}{2} [\cos \alpha - \cos(\alpha + \mu)]$$

$$\Delta V_d = \frac{3}{\pi} A$$

$$\Delta V_d = \frac{3\sqrt{3} V_m}{2\pi} [\cos \alpha - \cos(\alpha + \mu)]$$

$$\therefore V_d = V_{d0} \cos \alpha - \Delta V_d$$

$$= \frac{V_{d0} \cos \alpha}{2} + \frac{V_{d0} \cos(\alpha + \mu)}{2}$$

$$V_d = \frac{V_{d0}}{2} [\cos \alpha + \cos(\alpha + \mu)] \quad \text{--- (II)}$$

From (I) & (II),

$$\frac{I_d}{I_s} = \cos \alpha - \cos(\alpha + \mu)$$

$$\cos(\alpha + \mu) = -\frac{I_d}{I_s} + \cos \alpha$$

Substituting,

$$\therefore V_d = \frac{V_{d0}}{2} \left[2\cos \alpha - \frac{I_d}{I_s} \right]$$

$$V_d = V_{d0} \cos \alpha - I_d R_c$$

(6)

Q. 2) Explain inverter operation in HVDC systems with extinction angle & overlap angle. Derive necessary equations.

For an Inverter, it is usual to define an angle of advance ' β ' as $\beta = \pi - \alpha$

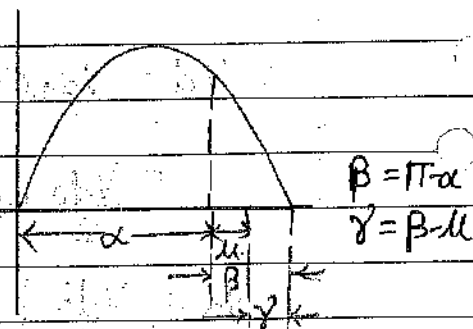
— when ' α ' is more than 90°

$$V_{dc} = -\frac{V_{doi}}{2} [\cos \alpha + \cos(\alpha + \mu)]$$

$$= -\frac{V_{doi}}{2} [\cos(\pi - \beta) + \cos(\pi - \gamma)]$$

$$V_{dc} = \frac{V_{doi}}{2} [\cos \beta + \cos \gamma] \quad \text{--- (I)}$$

where, extinction angle (γ) is defined as $\gamma = \beta - \mu$



— $\mu \rightarrow$ angle of overlap for rectifier.

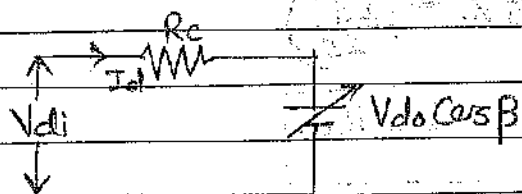
$$V_{dr} = V_{do} \cos \alpha - R_c I_d \quad \text{--- for rectifier}$$

For inverter,

$$V_{di} = - (V_{do} \cos \alpha - R_c I_d)$$

$$= - [V_{do} \cos(\pi - \beta) - R_c I_d]$$

$$V_{di} = V_{do} \cos \beta + R_c I_d \quad \text{--- (II)}$$



(a) Based on angle of advance from eqn (I),

$$\frac{2V_{di}}{V_{do}} = \cos \beta + \cos \gamma$$

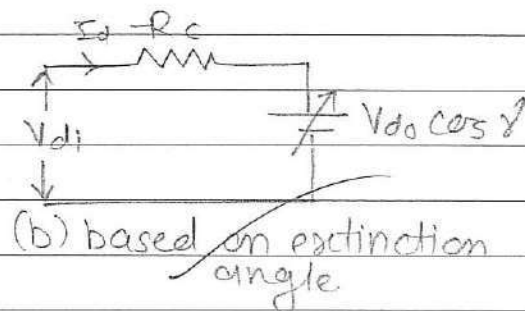
$$\Rightarrow \cos \beta = -\cos \gamma + 2 \frac{V_{di}}{V_{do}}$$

Substituting in eqn (II),

$$V_{di} = V_{do} \left[(-\cos \gamma) + 2 \frac{V_{di}}{V_{do}} \right] + R_c I_d$$

$$V_{di} = -V_{do} \cos \gamma + R_c I_d$$

$$\boxed{V_{di} = V_{do} \cos \gamma - R_c I_d} \quad \text{--- (III)}$$



where,

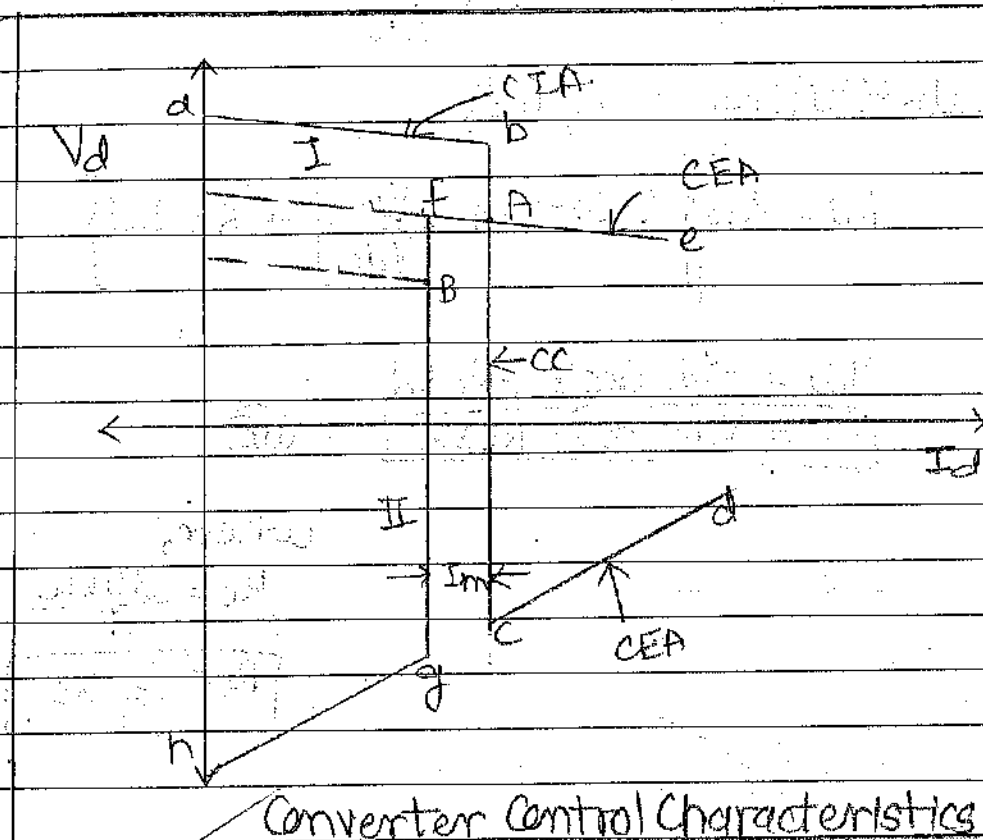
$$R_c = \frac{3 \omega L_c}{\pi}$$

$$\boxed{R_c = \frac{3}{\pi} X_c}$$

Q.3) Compare CIA, CC & CEA controls of HVDC system.

| Station I | Station II | Type |
|-----------|---------------|-------------------------------|
| ab | hg | minimum (α) [CIA] |
| bc | gf | constant current [CC] |
| cd | fe | minimum (γ) [CEA] |

⑥

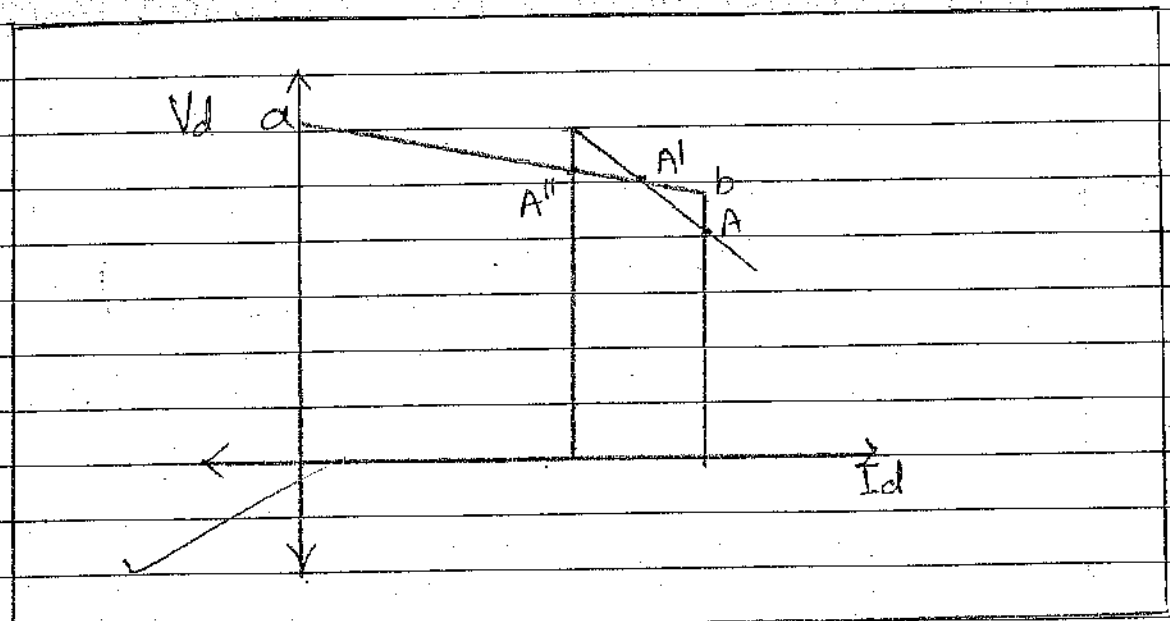


① There can be 3 modes of operation of DC link:-

- i) CC at rectifier & CEA at inverter
 \Rightarrow Operating point 'A'
 \Rightarrow Normal operating condition.
- ii) Slight decrease in AC vty \Rightarrow Point of Intersection drifts to 'C' \Rightarrow min α' at rectifier
 \Rightarrow min γ' at inverter.

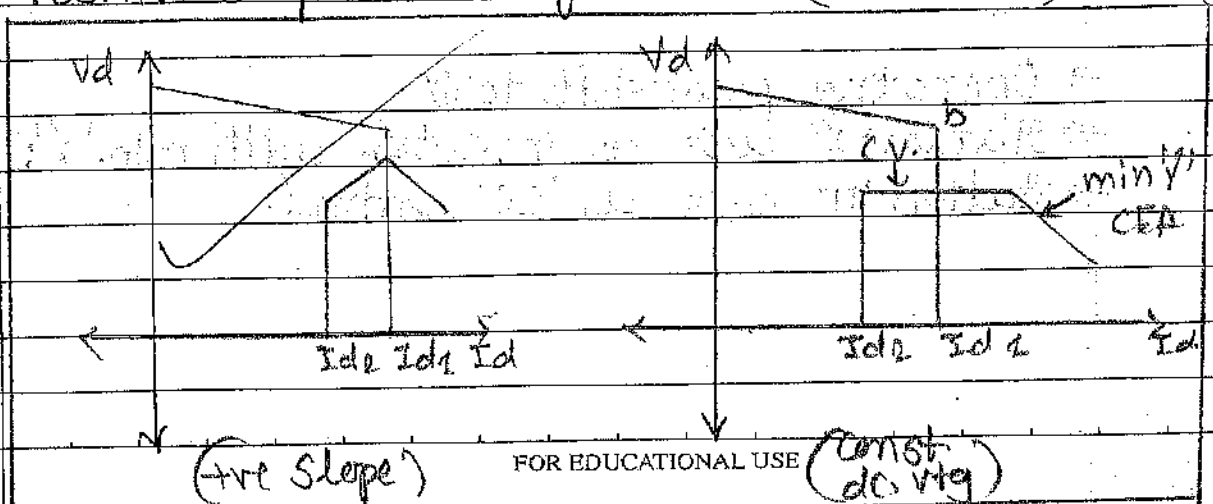
- iii) Lower AC voltage \Rightarrow Mode of operation shifts to point 'B'
 \Rightarrow CC at inverter
 \Rightarrow min α' at rectifier

* Modification of control characteristics:-

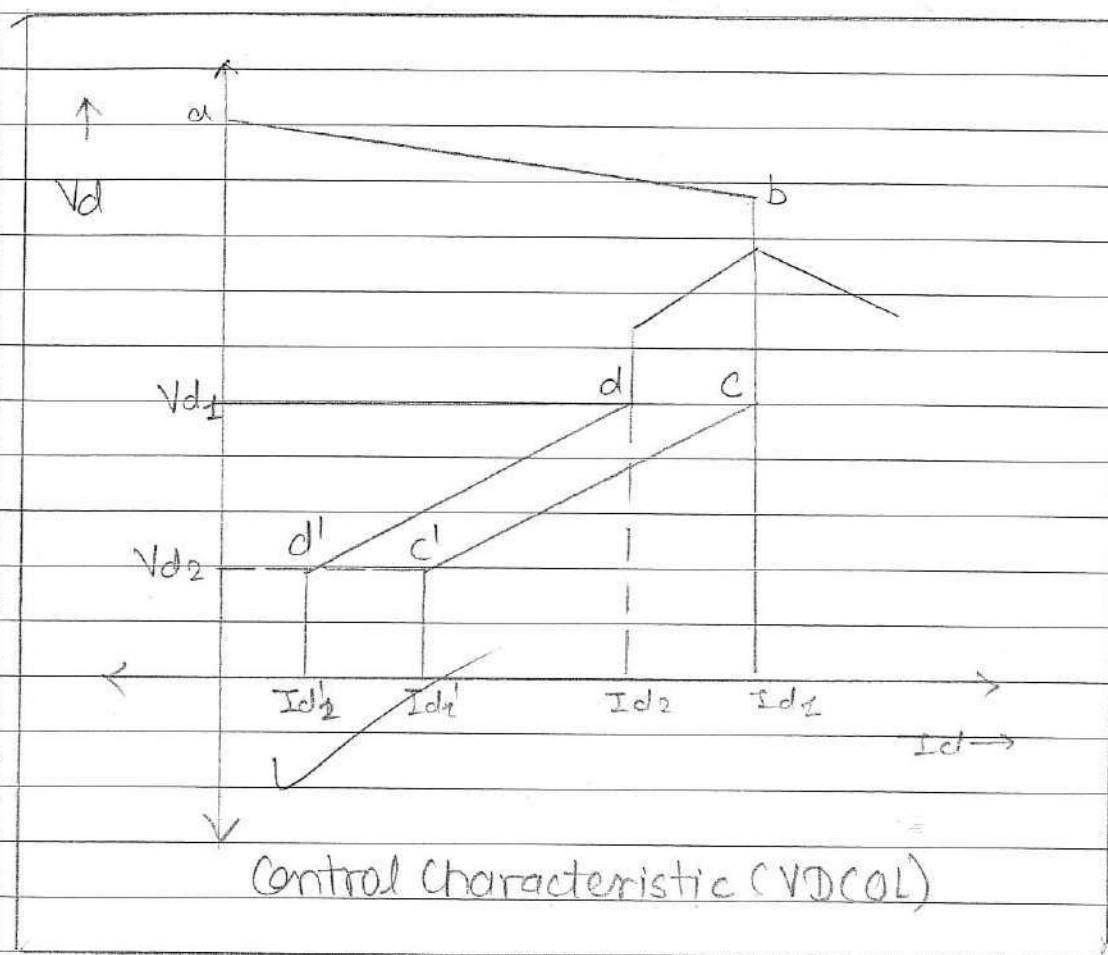


- ① If slope ' F_e ' exceeds that of 'ab',
3 possible operating points A, A', A'' will happen
 ⇒ Instability of control
 ⇒ This can cause hunting effect.

- ① To eliminate this problem,
Positive slope can be given betn (I_{d1} & I_{d2})

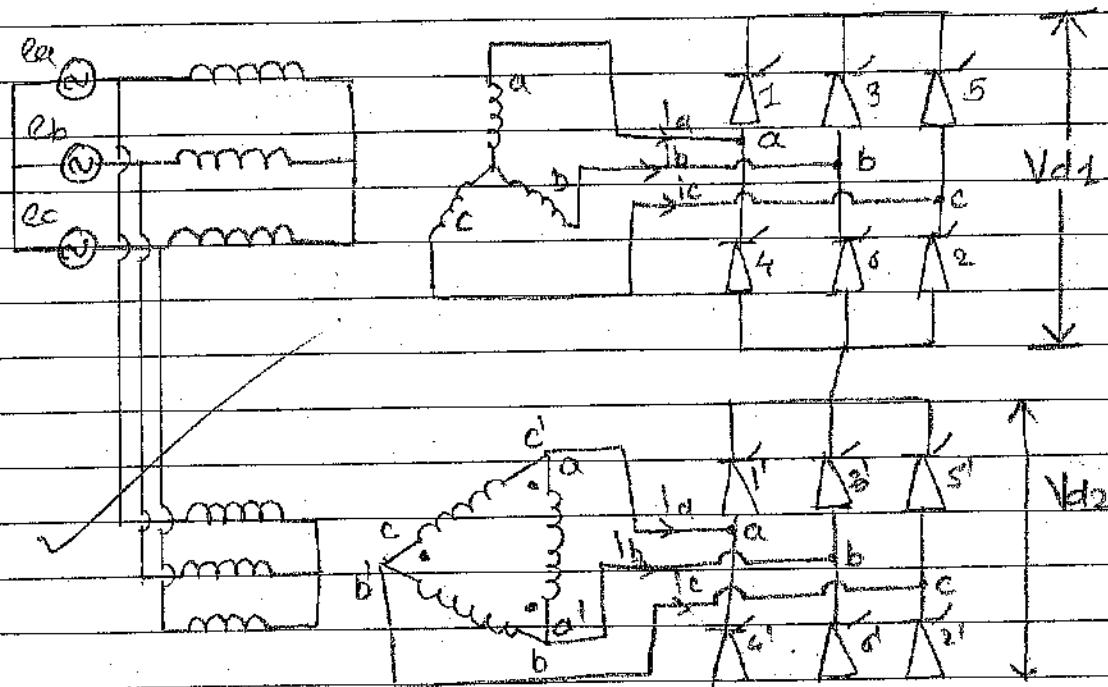


* Voltage dependent current order limit:-
(VDCOL)



- IF low voltage is due to fault on rectifier side in 'AC', the system has to operate at very low PF, causing excessive consumption of reactive power which is undesirable.
- Thus, it becomes useful to modify control characteristic to include vty. dependent current order limit.

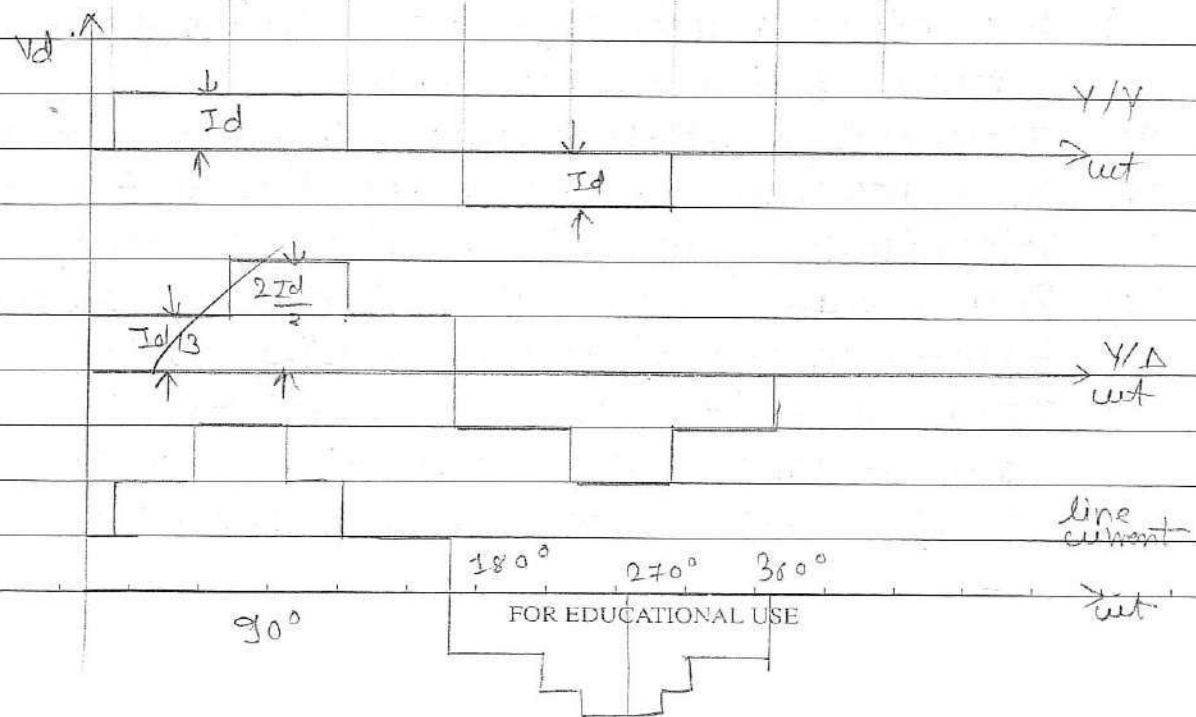
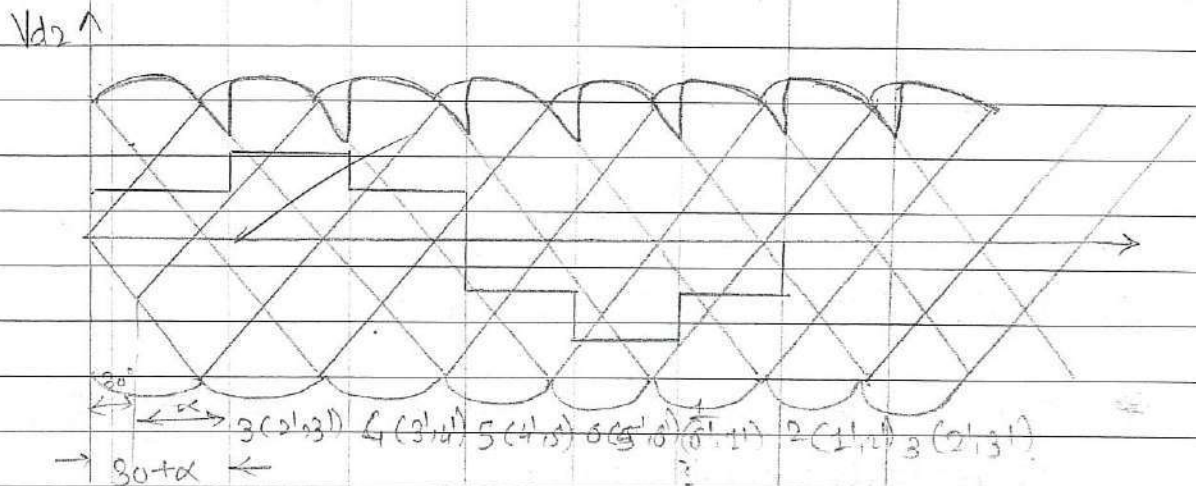
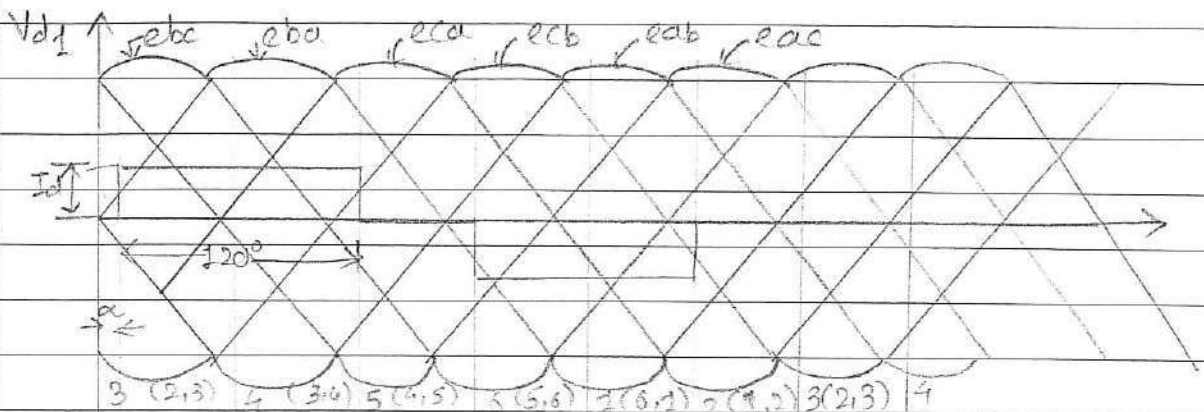
Q.4) Schematic diagram of 12-pulse converter & sketch current waveform.



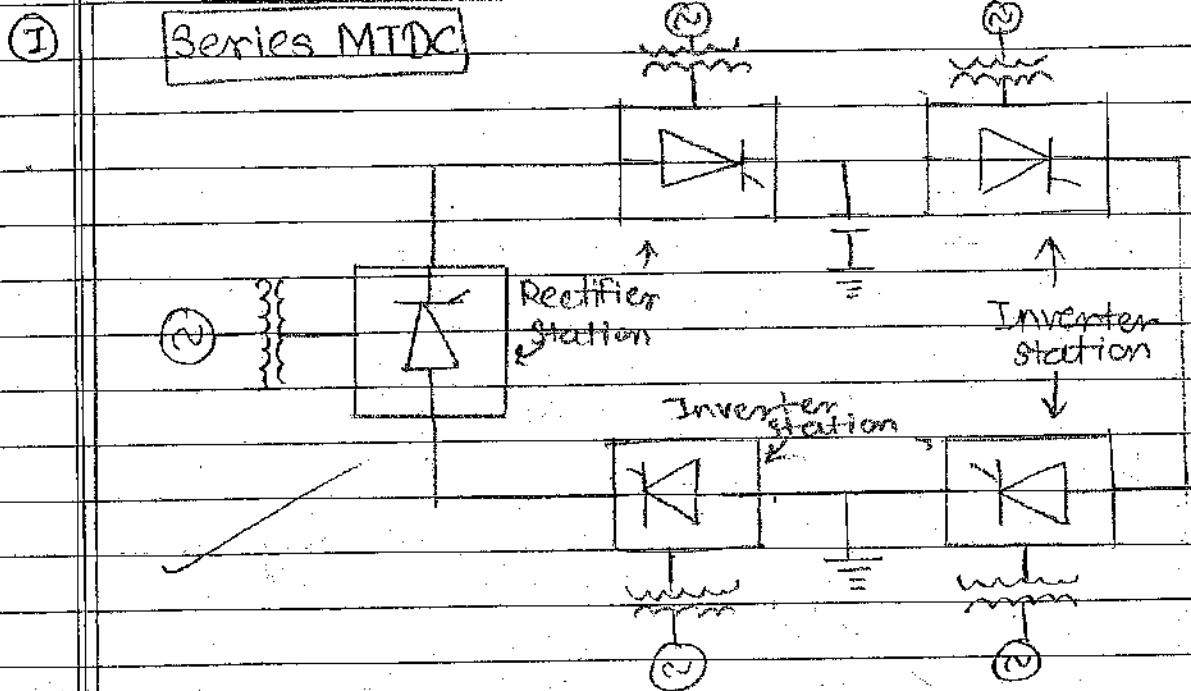
12 Pulse Converter

Schematic Diagram

* Waveform:-



Q.5) Draw Schematics of MTDC & applications.



② Applications of MTDC system:-

- i) It connects multiple DC renewable energy farms to multiple power grids
- ii) Bulk power transmission from remote generating stations to different load centres
- iii) It connects multiple offshore wind farms to grid
- iv) Allow interconnecⁿ betn two asynchronous AC systems
- v) Offers flexibility for power tapping at multiple joints.
- vi) Power supply reallocation in case of power failures in one of the generating stations
- vii) It can be used to offer more power to a heavily loaded AC N/W by using one rectifier & multiple inverters that injects power into the AC N/W.

Q.5) Explain protection against overvoltages in HVDC systems.

→

The typical arrangements of surge arresters in a converter station (for a pole).

For a system with two 12 pulse converters per pole, there are about 40 arresters per pole.

→ The arresters are selected with adequate energy dissipation capabilities which vary with the location of arresters.

eg: - The valve arrester protecting the commutation group at the highest potential can be subjected to higher energies than other arresters when a ground fault occurs between the valve & converter transformer in the upper bridge.

→ The closing of a bypass switch across a converter result in increasing the DC voltage across remaining converter. The converter unit arrester is stressed.

→ The protective firing of a valve is the backup protection that is available for overvoltages in forward direction.

Q.7) Differentiate between CSC & VSC.

→

| Sr. No. | Parameters | CSC | VSC |
|---------|--------------------------------|---|-------------------------------------|
| 1) | Device Type | Thyristor (Self-commutation) | Thyristor (Self-commutation) |
| 2) | Characteristic Symmetry | Symmetrical | Asymmetric |
| 3) | Short-Circuit Current | Lower | Higher |
| 4) | Losses | Higher | Lower |
| 5) | AC Capacitors DC Capacitors | Required Not required | Not required Required |
| 6) | Rate of rise of fault current | Limited by DC reactor | Fast rise (dt. capacitor discharge) |
| 7) | Inter Face with AC System | More Complex | Less Complex |
| 8) | Reactive Power generation | Depends on current flowing thro' energy storage | Independent of Energy storage |

Q.8) Comparison between Classical HVDC system with VSC based HVDC system.



| Attributes | Classical HVDC | VSC-HVDC |
|---------------------------------------|--|--|
| Converter Technology | Thyristor valve, grid commutation | Thyristor valve (IGBT), self commutation |
| Max Converter rating | 6400 MW, ± 800 kV [Overhead line] | 1200 MW, ± 320 kV [Cable] |
| Active Power Flow Control | Continuous $\pm 0.1 P_r$ to $\pm P_r$. | Continuous 0 to $\pm P_r$ |
| Reactive Power demand | 50% of power transfer | No reactive power demand |
| Reactive Power compensation & control | Discontinuous control (switched shunt banks) | Continuous control (PWM built-in in converter control) |
| Independent 'Q' control | No | Yes |
| Scheduled Maintenance | Typically $< 1\%$ | Typically $< 0.5\%$ |
| Typical system losses | 2.5-4.5% | 4-6% |

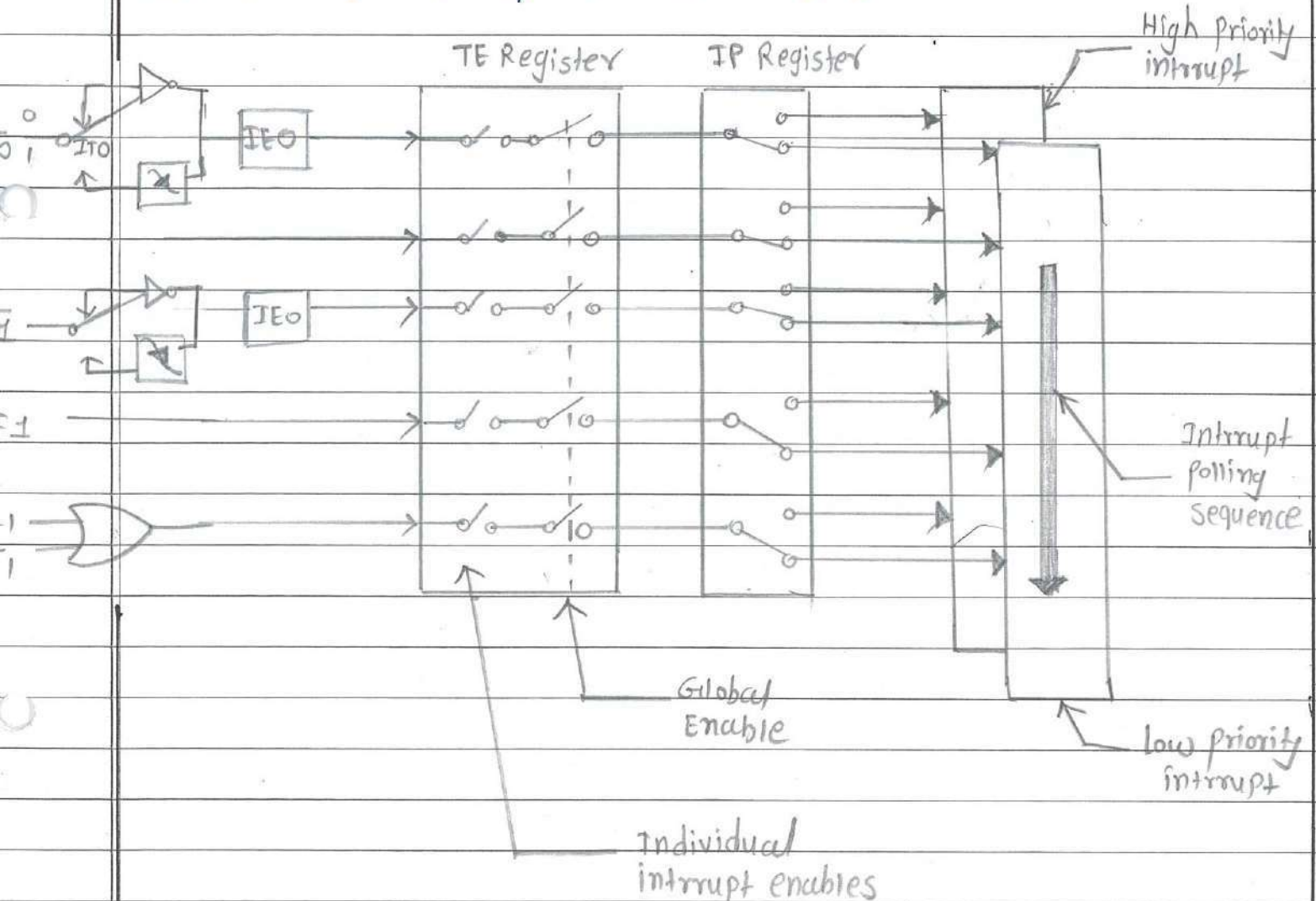
(12)
X (13)

Assignment No. 1

Q.1. Explain the Interrupt Structure of 8051

Ans. →

- The 8051 starts execution at 0000H after Reset. Fig. shows the interrupt structure of 8051.

Fig. Interrupt Structure

8051 Interrupts and their priority -

- 8051 provides 5 interrupt sources: two external interrupts and two timer interrupts.

= 5 interrupts sources

- External interrupt 0
- Timer 0
- External interrupt 1
- Timer 1
- Serial port

— Each interrupt type can be programmed to one of two priority levels.

— External interrupts can be programmed for edge or level sensitivity.

— Software interrupts can be generated when any of the interrupt enable flag is set by program.

◎ Vector Addresses of 8051 Interrupts

— Each interrupt type has a separate vector address.

| Source | Address |
|----------------|---------|
| E ₀ | 03H |
| T ₀ | 0BH |
| IEI | 13H |
| IFI | 1BH |
| RI & TI | 23H |

◎ Enabling and Disabling of Interrupts

— The global interrupt enable bit is used to enable or disables all the interrupts while the individual

interrupts enable bits can be used to enable or disable a particular interrupts. These interrupt enable bits are in the interrupt enable register.

- The fig. following shows structure of Interrupt enable and interrupt priority registers.

| EA — — ES ET1 EX1 ETO EX0 | | | |
|--------------------------------------|----------|--|--|
| Enable bit = 1 enables the interrupt | | | |
| Enable bit = 0 disables it. | | | |
| Symbol | Position | Function | |
| EA | IE-7 | Disables all interrupts. If EA=0, no interrupt will acknowledged. If EA=1 each interrupt source individually enabled or disabled by setting. | |
| — | IE-6 | reserved* | |
| — | IE-5 | reserved* | |
| ES | IE-4 | serial port interrupt enable bit | |
| ET1 | IE-3 | Timer 1 overflow interrupt enable bit | |
| EX1 | IE-2 | External Interrupt 1 enable bit | |
| ETO | IE-1 | Timer 0 overflow interrupt enable bit | |
| EX0 | IE-0 | External Interrupt 0 enable bit. | |

Fig. Interrupt Enable register (IE)

◎ Interrupt Priority-

- The interrupt priority register is used to program the interrupt in upper priority or lower priority blocks. In 8051 there are two interrupt priority blocks.

- The upper or higher priority interrupts have higher priority as the name says.

⊙ Timer Flag Interrupt

- If data byte is received, an interrupt bit, RI is set to 1 in the SCON register.
- When a data byte has been transmitted an interrupt bit, TI is set in the SCON
- These flags are ORed together to generate the interrupt. Both of them should be reset to enable the next data communication operation.

⊙ Serial port Interrupt

- If data byte is received, an interrupt bit, RI is set to 1 in SCON register.
- When a data type has been transmitted an interrupt bit TI, is set in the SCON
- These flags are ORed together to generate interrupt. Both of them should be reset to enable the next data communication operation.

⊙ External Interrupts

- pins $\overline{INT0}$ and $\overline{INT1}$ are used by external circuitry. Inputs on these pins can set the interrupt flags IEO and IEI in the TCON register to 1 by two different methods.
- when the input reaches 0 level
- When high-to-low transition on these pins depending on bits ITO and ITI in SFR register TCON.

⊙ Reset is a Non-Maskable Interrupts

- RST pin is Schmitt Trigger input
- External reset is asynchronous to internal clock
- RST pin must be high for at least two machine cycles while the oscillator is running.
- Internal RAM not affected by reset, but indeterminate on power up.
- port pin in random state until oscillator starts & algorithm write 1's to them
- Reset sets PC to 0000

Q.2) Draw a diagram of key and buzzer interfaced with microcontroller 8051 and write program to turn Buzzer ON after the switch is pressed.

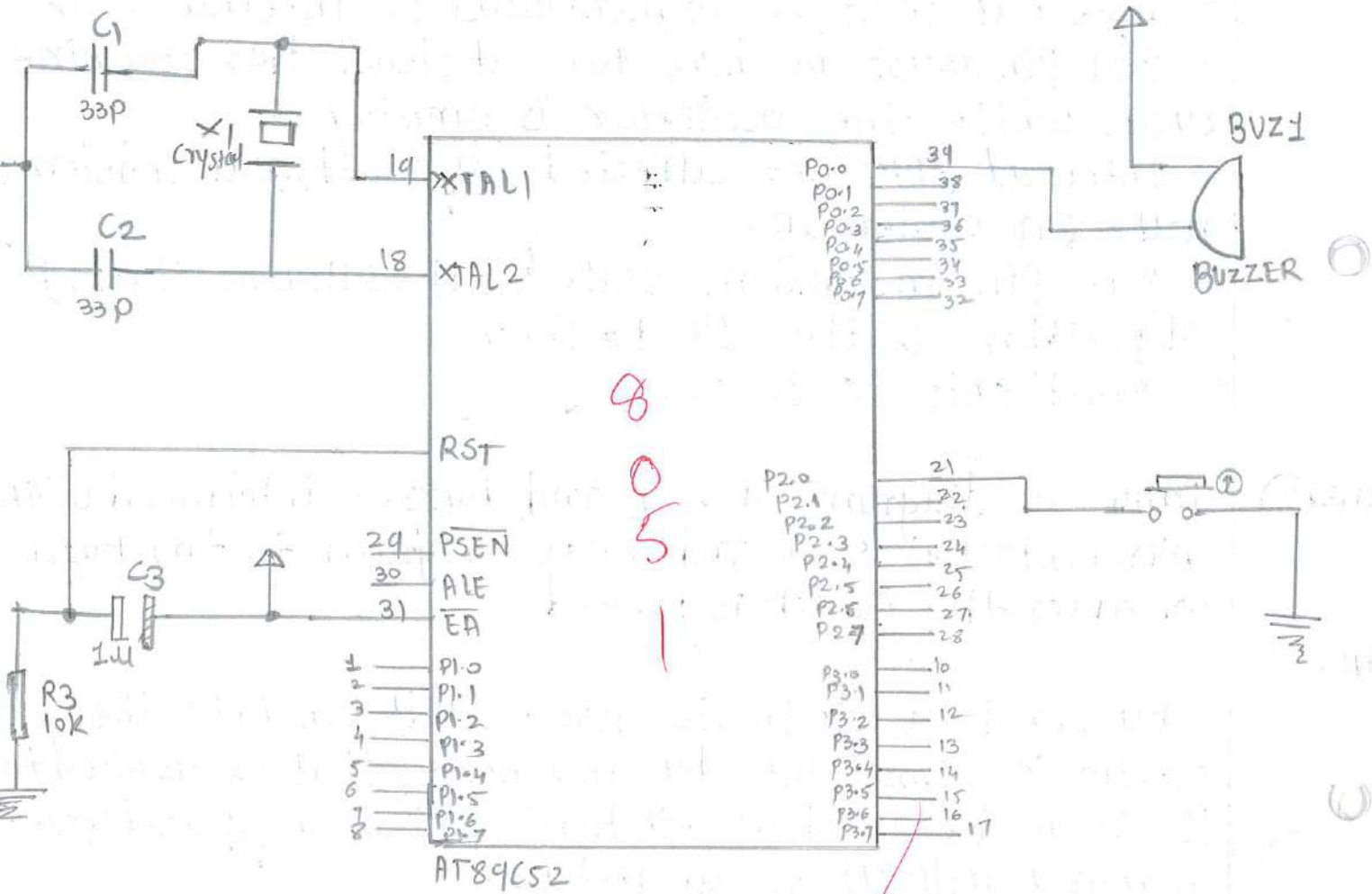
Ans. →

- Buzzer is a electronic device that converts the electronic signal into buzzing noise, that is applied to it. It can be used as electronic bell or as quiz buzzer in many applications around us.

⊙ Circuit Diagram / Interfacing diagram-

- The port 1 of the microcontroller is connected to buzzer.

- This type of connection is possible, if current requirements of buzzer is not more than 20mA. The output is in current source mode so that buzzer will turn ON when port is logic low. - Switch is connected to port 3 which remains at logic High by pull up resistor.



Programme -

```
#include "REG52.h"
#define buz P1
sbit sw = P3^0;
long int i;
void main()
{
    while(1)
    {
        if (sw == 0)
        {
            for(i=0; i<=90000; i++);
            if (sw == 0)
            {
                while (sw == 0);
                buz = 0x01;           // ON Buzzer
                for (i=0; i<4500; i++); // Delay
                buz = 0x00;           // off buzzer
                for (i=0; i<4500; i++); // Delay
            }
        }
    }
}
```


Q3) State features of PIC, draw and explain the block schematic of PIC 18FXXX.

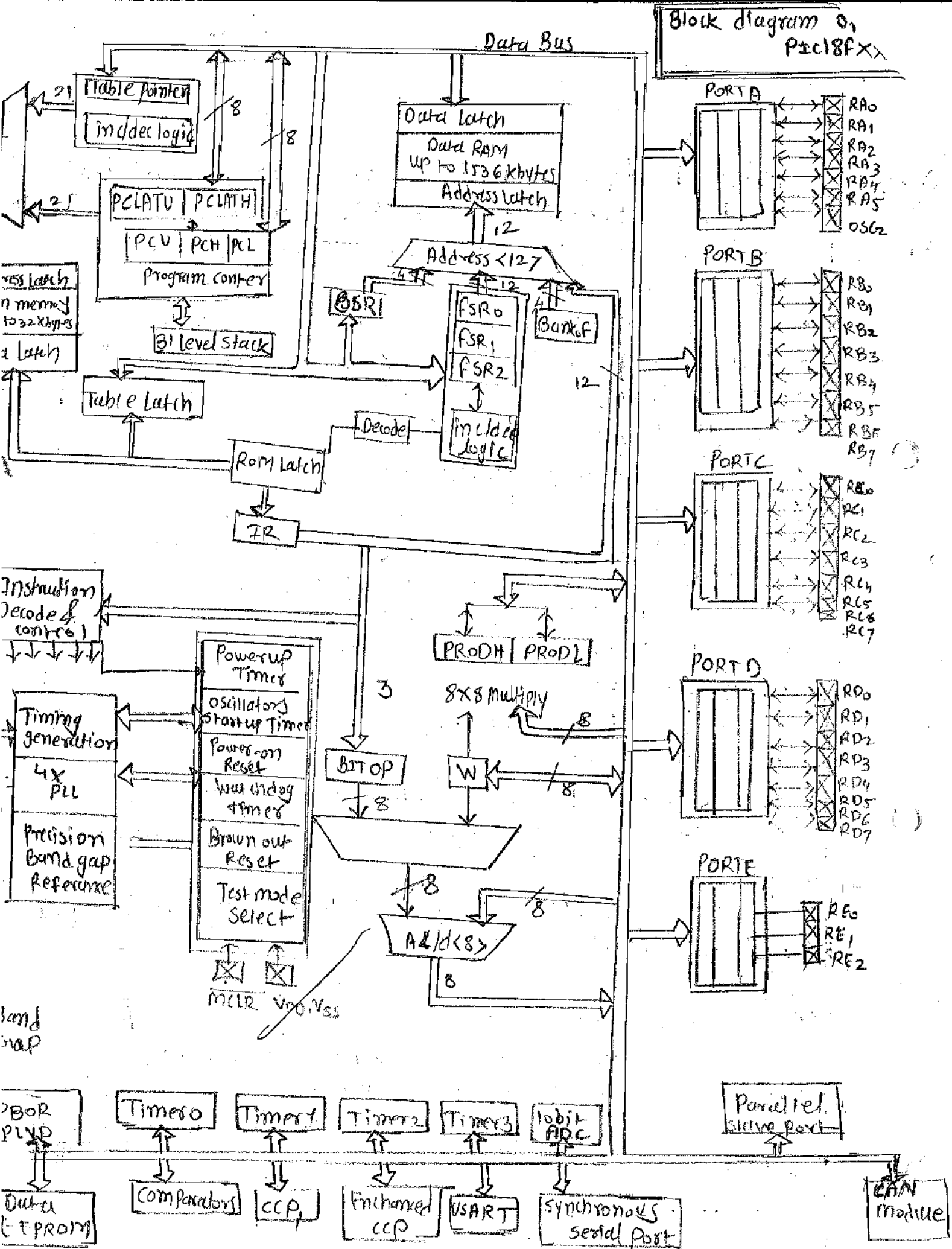
Ans. → - Features of PIC 18F-Series microcontrollers are:

- Program memory addressing up to 2 Mbytes
- Data memory addressing up to 4 Kbytes
- 77 instructions
- DC to 40 MHz operation
- 8x8 hardware multiplier
- Interrupt priority levels
- 16 bit-wide instructions, 8 bit wide data path
- PIC16 source code compatible
- Up to two 8-bit timers/counters
- Up to four external interrupts
- It has RISC architecture
- It has Data EEPROM
- Includes Timers
- contains I/O port between 16 to 72 pins
- Includes USART protocol for PC communication

- Block schematic of PIC 18FXXX is as shown in the fig 1.1.

⊙ Program Memory -

- The program memory provides instructions. This program memory is also connected to the instruction register through the ROM latch like system interface data bus.



② 31 level Stack

- A 31 level stack is provided for providing storing the return address in program counter, and hence the RAM is not be used for this purpose
- Since, the stack size is 31 levels, it can store upto 31 return addresses and hence upto 31 levels of the nested execution can be handled.

③ Data RAM

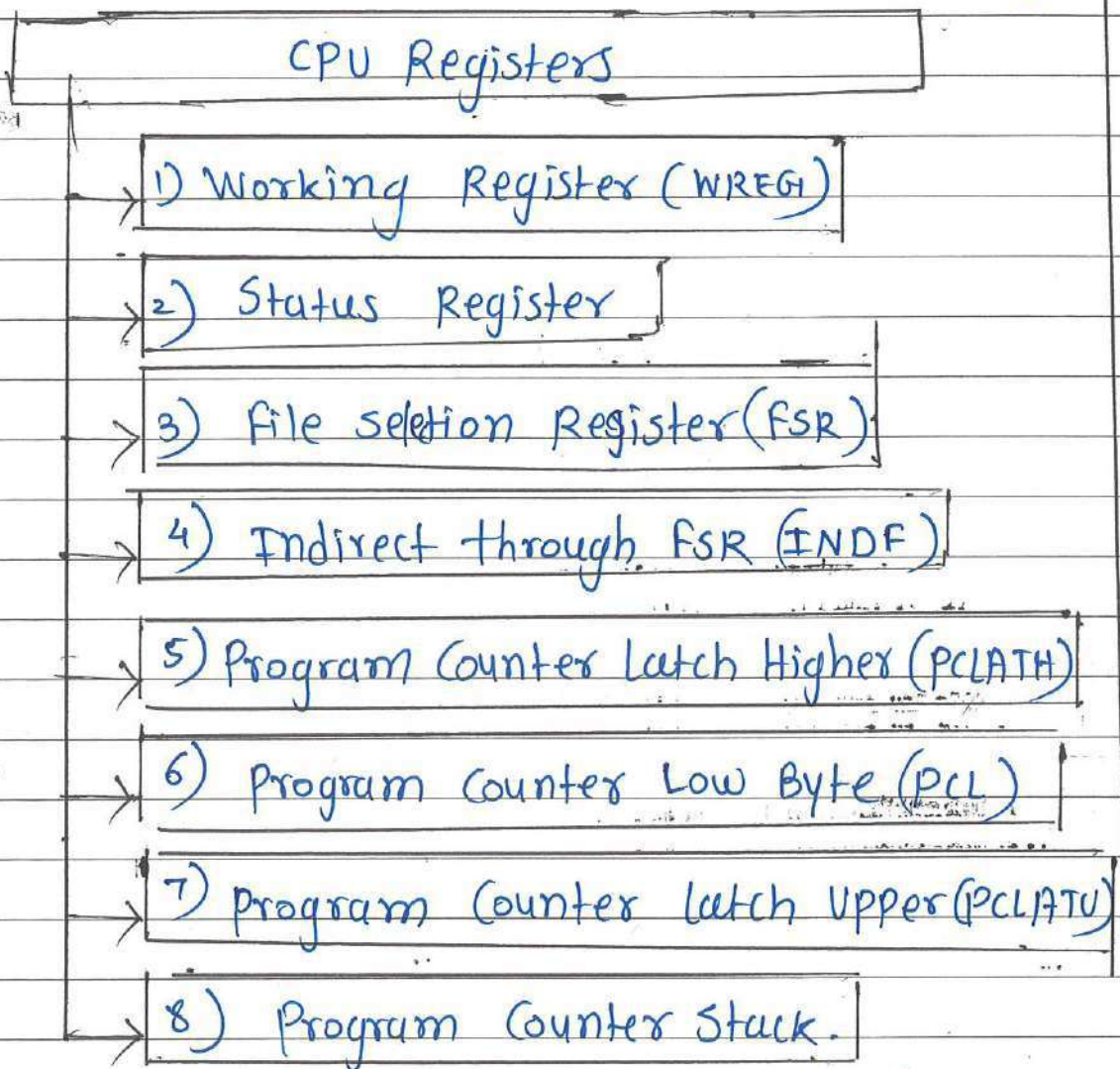
- Data RAM is provided whose data lines are connected to the system data bus, while the address is taken through a multiplexer that has three different inputs.
- FSR0, FSR1 and FSR2 are file select registers that provide the 12 bit address required to access the RAM. The address may provided in instruction itself hence the IR is also one of the inputs.
- A Bank Select Register (BSR) is also connected.

③ Arithmetic and Logic Unit (ALU)

- The ALU gets one of the input operand from W register or IR. The other operand may be given either from a register or memory location, and hence the other input side of ALU is connected to internal data BUS.
- The task of ALU is to perform Arithmetic and the logical operations.

⊙ CPU Registers

- There are 7 CPU registers in PIC18Fxxx family;



⊙ Working Register (WREG)

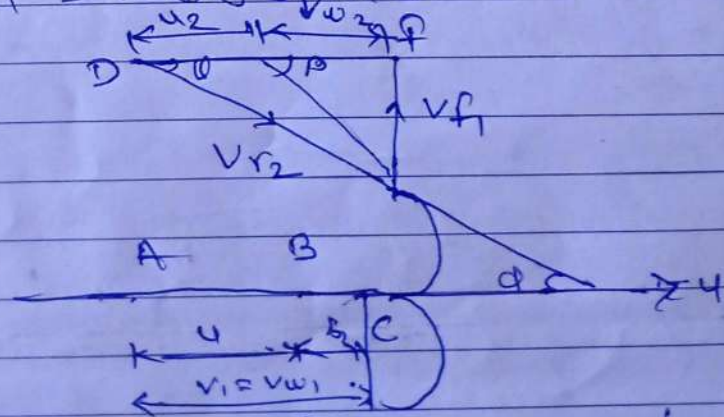
- It is 8 bits wide
- It serves as source for one/two operand instructions to be processed in the ALU. The result of operation may be stored in the w register
- It is not an addressable register.

Assignment No. 1

- Q. The Pykara Power house is equipped with impulse turbine of Pelton type each turbine deliver a maximum power of 14000 kW when working under head of 840 m and running at 600 rpm. Find the least diameter of the jet and the mean dia. of wheel. What would be approximate dia. of orifice at the nozzle tip? Determine the value of the jet motion and state if it is within limits. Specify the no. of buckets for the wheel overall efficiency of the turbine at 89.2%. Assume $C_v = 0.988$ and $K_u = 0.45$

→ Given $P = 14000 \text{ kW}$, $C_v = 0.988$,
 $H = 840 \text{ m}$, $K_u = 0.45$,
 $N = 600 \text{ rpm}$, $m = 1$
 $d_j = ?$, $\eta_o = 89.2\% = 0.892$
 $D = ?$, $K_u = \frac{U}{V_1} = 0.45$

Solⁿ :- $V_1 = C_v \sqrt{2gH} = 0.988 \sqrt{2 \times 9.81 \times 840}$
 $V_1 = 126.83 \text{ m/s}$



$$K_u = \frac{U}{V_1} \Rightarrow U = 0.45 \times V_1$$

i) Wheel diameter :-

$$V = \frac{\pi D N}{60} \Rightarrow 57.07 = \frac{\pi \times D \times 600}{60}$$

$$\therefore \boxed{D = 1.8165 \text{ m}}$$

ii) Jet diameter (d_j) ;

w.k.t.

$$\eta_0 = \frac{P}{5gQH} \Rightarrow 0.892 = \frac{14000 \times 10^3}{1000 \times 9.81 \times Q \times 820}$$

$$\therefore Q = 1.9046 \text{ m}^3/\text{s}$$

$$Q = \frac{\pi}{4} \times d_j^2 \times V_j$$

$$1.9046 = \frac{\pi}{4} d_j^2 \times 126.83$$

$$\therefore \boxed{d_j = 0.1382 \text{ m}}$$

iii) Jet ratio ;

$$m = \frac{D}{d_j} = \frac{1.8165}{0.1382} = 13.13$$

The value of jet ratio varies betⁿ 11 to 15
Hence $m = 13.13$ is within limit.

iv) No. of buckets ;

$$Z = 15 + 0.5m$$

$$= 15 + 0.5 \times 13.13$$

$$\boxed{Z = 22} \text{ buckets}$$

✓) Approximate diameter of orifice:-

Dia of orifice should be greater than dia of jet

$$\therefore \text{Dia of orifice} = d_1 = \sqrt{\frac{Q \sin \alpha}{2.66 u \cos \alpha}}$$

Assume $u = 0.84$, $\alpha = 84$

$$\therefore d_1 = \sqrt{\frac{1.9046 \times \sin 84}{2.66 \times 0.84 \times 0.9881840}}$$

$$d_1 = 0.1719 \text{ m}$$

Q.2 Steam impulse turbine wheel having a nozzle of 20° at a velocity of 450 m/s . The exit angle of the moving blade is 20° and relative velocity of steam may be assumed to remain constant over the moving blades. If the blade speed is 180 m/s and mass flow rate of steam is 2.5 kg/s Determine.

- 1) Blade angle at inlet,
 - 2) Work done per kg of steam.
 - 3) Total Power developed by the turbine
- Diagram efficiency.

→ Given

$$\alpha = 20^\circ$$

$$u_1 = 420 \text{ m/s}$$

$$\phi = 20^\circ$$

$$v_2 = v_{r1}$$

$$u = 180 \text{ m/s}$$

$$\dot{m} = 2.5 \text{ kg/s}$$

Diagram 9.

i) Blade angle at inlet @

Consider inlet $AABCD$,

$$V_{w1} = V \cos \alpha = 450 \cos 20 = 422.86 \text{ m/s}$$

$$V_{f1} = V \sin \alpha = 450 \sin 20 = 153.91 \text{ m/s}$$

$$BD = V_{w1} - u = 422.86 - 180 \\ = 242.86 \text{ m/s}$$

$$\theta = \tan^{-1} \left(\frac{V_{f1}}{BD} \right) = \tan^{-1} \left(\frac{153.91}{242.86} \right)$$

$$\boxed{\theta = 32.36^\circ}$$

$$\text{Also } V_{r2} = V_{r1} = \sqrt{V_{f1}^2 + (BD)^2} \\ = \sqrt{153.91^2 + 242.86^2} \\ = 287.52 \text{ m/s}$$

$$\therefore V_{r1} = V_{r2} = 287.52 \text{ m/s}$$

ii) Workdone Per kg of steam, w

Consider outlet $ABEF$

$$V_{f2} = AF = F_B - u = V_{r2} \cos \phi - u$$

$$= 287.52 \cos 20 - 180$$

$$= 90.18 \text{ m/s.}$$

$$w = \frac{(Vw_1 + Vw_2)}{1000} \text{ kJ/kg}$$

$$= \frac{(22.86 + 90.18)}{1000} 180$$

$$= 92.3472 \text{ kJ/kg.}$$

iii) Total Power developed, w .

$$W = m'w = 2.5 \times 92.3472$$

$$= 230.868$$

iv) Diagram efficiency!

$$\eta_b = \frac{w}{V_1^2/2} = \frac{2w}{V_1^2}$$

$$= \frac{2 \times (92.3472 \times 1000)}{(450)^2}$$

$$\eta_b = 0.9121 = 91.21\%$$


DEPARTMENT OF MECHANICAL ENGINEERING
Assignment 1 (Unit I & Unit II)
Course: Numerical and Statistical Methods
Class: TE Mechanical Sandwich (A Y: 2022-23)
Unit 1

| | |
|------|---|
| Q.1 | Draw the flow chart for Bi-section method |
| Q.2 | Solve by Bisection Method $3x = \cos x + 1$ correct up to three decimal places |
| Q.3 | Explain convergence and divergence in Newton Raphson method |
| Q.4 | Solve using Newton-Raphson Method the equation $e^x \cos x - 1.4 = 0$. Find the value of the root up to the accuracy of 0.001. |
| Q.5 | Find the positive root of $x^4 - x = 10$ by Newton-Raphson's correct to three decimal places. |
| Q.6 | Find a positive real root of $3x = \cos x + 1$ by Newton's method. |
| Q.7 | Write step by step procedure for Gauss elimination method. |
| Q.8 | Using gauss elimination method solve the following set of simultaneous equations. $2x + 4y - 6z = -4$; $x + 5y + 3z = 10$; $x + 3y + 2z = 5$. |
| Q.9 | Solve the following system of equation using Gauss elimination method. $3x + 2y + 3z = 18$; $2x + y + z = 10$; $x + 4y + 9z = 16$. |
| Q.10 | What is meant by partial pivoting in Gauss elimination to solve simultaneous equations? |
| Q.11 | Solve the system of equation using Gauss elimination method. $x + y - 2z = 3$; $4x - 2y + z = 5$; $3x - y + 3z = 8$. Use partial pivoting |
| Q.12 | Solve the following system of equation using Seidel method up to Six times. $3x + y + z = 5$; $x + 6y + 2z = 19$; $-x - 2y - 5z = 10$. |
| Q.13 | Draw the flowchart for Thomas algorithm method. |
| Q.14 | Solve the following equation by Thomas algorithm $3x_1 - x_2 = 5$; $2x_1 - 3x_2 + 2x_3 = 5$; $x_2 + 2x_3 + 5x_4 = 10$; $x_3 - x_4 = 1$ |
| Q.15 | Using Gauss Seidel Method solve the following set of equations up to four iterations. $x + 2y + z = 0$ $3x + y - z = 0$ $x - y + 4z = 3$ |

NSM: Ag

| Roll No | Name of the Student | Questions to be attempted |
|---------|--------------------------|---------------------------|
| 21MS336 | POMAN PRACHIT PRAVIN | Q.6, Q.8, Q.20, Q.24 |
| 21MS337 | RANE VISHAL PRAKASH | Q.1, Q.8, Q.22, Q.27 |
| 21MS338 | SABALE PRAHLAD GAUTAM | Q.5, Q.13, Q.19, Q.29 |
| 21MS339 | SHINDE SANDHYA DHARMRAJ | Q.4, Q.12, Q.19, Q.27 |
| 20MS026 | SHINDE YOGADA SANTOSH | Q.1, Q.11, Q.17, Q.24 |
| 20MS027 | SHIRODKAR ATHARWA SUHAS | Q.2, Q.15, Q.17, Q.26 |
| 21MS340 | SONAWANE GANESH NIMBA | Q.4, Q.10, Q.18, Q.29 |
| 20MS028 | SONAWANI PARTH SANJAY | Q.4, Q.13, Q.16, Q.29 |
| 21MS341 | SONDKAR SHWETA AMOL | Q.2, Q.15, Q.21, Q.23 |
| 21MS342 | SUTAR OMKAR BHARAT | Q.1, Q.8, Q.21, Q.29 |
| 21MS343 | TAKLE ANUJ BALASAHEB | Q.4, Q.13, Q.20, Q.23 |
| 21MS344 | TILEKAR CHETAN NANDKUMAR | Q.3, Q.12, Q.19, Q.23 |
| 20MS029 | URKUDE NIRANJAN JITENDRA | Q.4, Q.9, Q.22, Q.30 |
| 20MS030 | UTTEKAR ARYESH DHIRAJ | Q.2, Q.11, Q.16, Q.27 |
| 21MS345 | WAGHMARE SHUBHAM SANDIP | Q.1, Q.13, Q.21, Q.29 |
| 20MS031 | WELDE PARTH JAGDISH | Q.5, Q.9, Q.22, Q.26 |
| 20MS032 | YEVATEKAR YASH MUKUND | Q.4, Q.12, Q.16, Q.26 |



DEPARTMENT OF MECHANICAL ENGINEERING

Unit 2

Unit 2

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------|-------|-------|-------|--|------|--|--|--|---|--|--|--|--|--|------|--|-------|-------|---|--|--|--|--|--|-----|-----|-----|-----|--|
| Q.16 | Obtain the solution of $dy/dx = 3x + y^2$ using Taylor's series method. Given $y(0) = 1$. Determine $y(0.1)$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.17 | Draw flow chart for Euler's method. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.18 | Use Euler's method with $h = 0.5$ to solve the initial value problem over the interval $x = 0$ to 2 . $dy/dx = yx^2 - 1.1y$; Where $y(0) = 1$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.19 | Draw a flow chart for Runge-Kutta second order method. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.20 | $dy/dx = x + y$ given $y(0) = 1$, $h = 0.1$ find $y(0.2)$ using Runge-Kutta 2 nd order method. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.21 | Use Runge Kutta 4 th order method to solve $y' - \sin(y) = 1$, from $x = 0$ to 0.5 in step of $h = 0.1$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.22 | Solve the second order differential equation $y'' = xy' - y^2$ for $x = 0.2$ correct to 4 decimal places. Initial conditions are $x = 0$, $y = 1$, $y' = 0$ by Runge-kutta 2 nd order. Increment in $x = 0.1$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.23 | Solve the differential equations for $x = 0.3$. Using Runge-kutta method of fourth order with initial value $x = y = 0$; $z = 1$. $dy/dx = (1 + xy)$ and $dz/dx = -xy$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.24 | Second order differential equation is $x^2 (d^2y/dx^2) + (x - 2) (dy/dx) - 3y = 10x$, subject to consideration $y(0) = 0$; $y(0.3) = 10$; $h = 0.1$ solve by finite difference method. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.25 | <p>The edges of a steel plate 750×750 mm has maintained at temperature as shown in Figure. What will be steady state temperature at the interior point?</p> <div style="text-align: center;"> <p>2000 2000 2000 2000</p> <table border="1" style="margin: auto;"> <tr> <td></td> <td></td> <td>T_1</td> <td>T_2</td> <td></td> </tr> <tr> <td>1000</td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1000</td> <td></td> <td>T_3</td> <td>T_4</td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>500</td> <td>500</td> <td>500</td> <td>500</td> <td></td> </tr> </table> </div> | | | T_1 | T_2 | | 1000 | | | | 0 | | | | | | 1000 | | T_3 | T_4 | 0 | | | | | | 500 | 500 | 500 | 500 | |
| | | T_1 | T_2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | T_3 | T_4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 500 | 500 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.26 | Draw the flowchart of parabolic equation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.27 | Solve $\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}$ for the following condition using explicit finite difference scheme at $t = 0$, $u = \sin \pi x$ ($0 < x < 1$) at $x = 0$ and $x = 1$, $u = 0$ for all values of t . Taking increment in t as 0.002 and increment in x as 0.2 tabulate values of u for $t = 0$ to 0.006 and $x = 0$ to 1 . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.28 | <p>Solve $\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}$, for the following condition using Crank-Nicolson method.</p> <p>At $x = 0$ and $x = 3$; $u = 0$ for all values of t</p> <p>At $t = 0$, $u = x^2$ for $0 < x < 3$</p> <p>Take increment in x as 1 and increment in t as 0.1. Find all values of u for $t = 0$ to $t = 0.3$.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.29 | Solve the equation $\nabla^2 u = -10(x^2 + y^2 + 10)$ over the square with sides $x = 0 = y$; $x = 3 = y$ with $u = 0$ on the boundary and mesh length = 1 . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.30 | Write a short note on boundary value problem. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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Department of Mechanical Engineering

Academic Year : 2022-23 (Term I)

Assignment 1 (Unit I & II)

| Class : TE Mechanical Sandwich | | Numerical & Statistical Methods (302041) |
|--------------------------------|---------------------------|--|
| Roll No | Name of the Student | Questions to be attempted |
| 20MS001 | AGRAWAL JAY GANESH | Q.3, Q.8, Q.17, Q.24 |
| 19MS031 | ATUL BALU LOKHANDE | Q.3, Q.8, Q.21, Q.28 |
| 21MS301 | BHOI BHAVESH SUNIL | Q.2, Q.8, Q.19, Q.28 |
| 20MS002 | BHONSLE KARAN HAMBIR | Q.3, Q.10, Q.19, Q.27 |
| 20MS003 | BHOSALE JAYESH DATTATRAY | Q.2, Q.14, Q.16, Q.29 |
| 20MS004 | BUUNDELE PRERNAA DINESH | Q.4, Q.12, Q.18, Q.27 |
| 21MS302 | CHAUDHARI DEVENDRA ANIL | Q.3, Q.8, Q.20, Q.25 |
| 21MS303 | CHAUDHARI MOHAN DATTATRAY | Q.4, Q.13, Q.21, Q.23 |
| 21MS304 | CHAUDHARI ROHIT PRAMOD | Q.5, Q.14, Q.16, Q.29 |
| 21MS305 | CHAUDHARI SHALEM NARESH | Q.1, Q.10, Q.16, Q.28 |
| 20MS005 | CHOUDHARI KAILASH SOMARAM | Q.6, Q.11, Q.16, Q.28 |
| 21MS306 | CHOURE RAMHARI ASARAM | Q.6, Q.11, Q.16, Q.27 |
| 20MS006 | DAKLIYA YASH PRASHANT | Q.1, Q.15, Q.18, Q.26 |
| 21MS307 | DALE PRASHANT DILIPRAO | Q.1, Q.13, Q.22, Q.30 |
| 21MS308 | DATE DHANANJAY VILAS | Q.2, Q.12, Q.21, Q.24 |
| 21MS309 | DESHMUKH ATHANG VIVEK | Q.7, Q.10, Q.17, Q.26 |
| 21MS310 | GAIKWAD TEJAS SHAILENDRA | Q.1, Q.8, Q.17, Q.28 |
| 21MS311 | GARODI KUNAL NAMDEO | Q.1, Q.8, Q.21, Q.29 |
| 21MS312 | GHODERAU SHUBHAM ANIL | Q.5, Q.14, Q.21, Q.24 |
| 21MS313 | GORAD SAURAV GORAKSHANATH | Q.5, Q.15, Q.21, Q.23 |
| 21MS314 | GUGALE YASH SANDIP | Q.2, Q.9, Q.22, Q.27 |
| 20MS007 | GUJARATHI GAURANG PANKAJ | Q.1, Q.15, Q.20, Q.25 |
| 21MS315 | HATTARGE ABHISHEK ANIL | Q.1, Q.12, Q.22, Q.24 |
| 20MS008 | HATTEKAR NIKHIL ABHAY | Q.7, Q.15, Q.21, Q.24 |
| 21MS316 | HINGANE SHUBHAM VIKAS | Q.6, Q.8, Q.21, Q.28 |

| Roll No | Name of the Student | Questions to be attempted |
|---------|------------------------------------|---------------------------|
| 20MS010 | IRALE SUMEET SURESH | Q.2, Q.11, Q.16, Q.29 |
| 20MS011 | JADHAV SHANTANU SANJAY | Q.4, Q.12, Q.16, Q.29 |
| 20MS012 | JADHAV SHASHWAT SHIVAJI | Q.4, Q.9, Q.16, Q.23 |
| 20MS013 | JAKAPURE SHIVSHANKAR SURESH | Q.4, Q.15, Q.20, Q.28 |
| 20MS014 | KADAM KRISHNA BALASAHEB | Q.3, Q.11, Q.21, Q.29 |
| 21MS317 | KADAM SIDDHANT SACHIN | Q.7, Q.14, Q.22, Q.26 |
| 21MS318 | KALE MANSI ULHAS | Q.3, Q.15, Q.19, Q.29 |
| 21MS319 | KARANJKAR ADITI RAMCHANDRA | Q.6, Q.13, Q.21, Q.29 |
| 20MS015 | KHARKAR PUSHPANJAY HEMKANT | Q.7, Q.14, Q.17, Q.23 |
| 21MS320 | KHATIB AFRID FIROJ | Q.6, Q.15, Q.20, Q.26 |
| 21MS321 | KSHIRSAGAR SHARVARI MADHUKAR | Q.7, Q.9, Q.19, Q.24 |
| 20MS016 | KULKARNI ABHISHEK PRASHANT | Q.6, Q.13, Q.16, Q.25 |
| 20MS017 | LATE PRATHAMESH GIRISH | Q.6, Q.12, Q.22, Q.26 |
| 21MS322 | LIMKAR SHAUNAK PRASHAANT | Q.6, Q.11, Q.21, Q.25 |
| 21MS323 | LONARI ROHIT SHANKAR | Q.5, Q.10, Q.20, Q.25 |
| 21MS324 | MAGARE OM SHIRISH | Q.1, Q.8, Q.21, Q.28 |
| 21MS325 | MALEKAR SARVESH DEEPAK | Q.3, Q.14, Q.20, Q.27 |
| 20MS018 | MANDALE ADITYA UMESH | Q.6, Q.9, Q.22, Q.26 |
| 21MS326 | MANE MANASI NARENDRA | Q.7, Q.13, Q.16, Q.29 |
| 20MS019 | MHASKE CHAITANYA MILIND | Q.1, Q.14, Q.20, Q.25 |
| 21MS327 | MUJAWAR MAHAMMADSAIF IAKIRHUSEN | Q.1, Q.10, Q.18, Q.24 |
| 21MS328 | PALANGE ATHARVA PRADEEP | Q.2, Q.12, Q.17, Q.23 |
| 21MS329 | PALI WAL SHEETAL SACHIN | Q.3, Q.15, Q.17, Q.28 |
| 20MS020 | PALVE VEDANT CHANDRAKANT | Q.1, Q.10, Q.22, Q.24 |
| 21MS330 | PANCHAL MAROTI DNYANOBA | Q.2, Q.14, Q.18, Q.29 |
| 20MS021 | PATEL YASH JAYANT | Q.3, Q.15, Q.17, Q.29 |
| 21MS331 | PATIL ADITYA AJAY | Q.5, Q.12, Q.21, Q.29 |
| 21MS332 | PATIL KANISHK SHARAD | Q.5, Q.14, Q.20, Q.25 |
| 20MS022 | PATIL PARTH DINKARRAO | Q.2, Q.14, Q.18, Q.28 |
| 21MS333 | PATIL PRAGATI UDAY | Q.1, Q.15, Q.19, Q.23 |
| 21MS334 | PATIL RAJ KIRAN | Q.7, Q.8, Q.18, Q.28 |
| 20MS023 | PATIL SIDDHESH MAHESH | Q.7, Q.9, Q.19, Q.30 |
| 20MS024 | PATIL YASH DIPAK | Q.6, Q.10, Q.20, Q.29 |
| 21MS335 | PAWASKAR MAYURESH KISHOR | Q.5, Q.12, Q.16, Q.30 |
| 20MS025 | DIXIT E MALHAR AJIT | Q.7, Q.10, Q.20, Q.26 |



DEPARTMENT OF MECHANICAL ENGINEERING

Assignment 2 (Unit III & Unit IV)

Course: Numerica I and Statistical Methods

Class: TE Mechanical Sandwich (A Y: 2022-23)

Unit 3

- Q.1 Explain the Trapezoidal rule with the help of flow chart.
- Q.2 Evaluate $\int_0^2 \frac{x}{\sqrt{2+x^2}} dx$ by using Trapezoidal rule with four strip
- Q.3 Find the integral $\int_0^\pi \sin(x) \cdot dx$ using Trapezoidal rule
- Q.4 Explain Simpson's 1/3rd rule using graphical representation.
- Q.5 Evaluate $\int_0^4 e^x \cdot dx$ using Simpsons 1/3rd rule using four strips
- Q.6 Evaluate $\int_1^2 \frac{e^x}{x} \cdot dx$ using Simpsons 1/3rd rule using four strips
- Q.7 Explain Simpson's 3/8 rule using flow chart.
- Q.8 Evaluate $\int_0^1 \frac{\sin x}{2+3\sin x} \cdot dx$ using Simpsons 3/8 rule using four strips
- Q.9 Write a flow chart for Gauss Legendre 2 point formula.
- Q.10 Evaluate $\int_0^1 \frac{1}{1+x^2} \cdot dx$ use Gauss Legendre formula.

Unit 4

- Q.11 Draw flow chart to fit an equation $y = ax + b$
- Q.12 Determine constant a and b using method of least square such that $y = ax + b$ fits following data:

| | | | | | |
|---|-------|--------|--------|--------|--------|
| x | 2 | 4 | 6 | 8 | 10 |
| y | 4.077 | 11.084 | 30.128 | 81.128 | 222.62 |

- Q.13 Fit a straight line passing through the points

| | | | | |
|---|---|----|-----|-----|
| x | 1 | 2 | 5 | 7 |
| y | 1 | 12 | 117 | 317 |



DEPARTMENT OF MECHANICAL ENGINEERING

- Q.14 The equation of the best-fit curve is of the type $y = a b^x$. Find value of constant a and b . Fitting the curve through the points.

| | | | | | |
|---|-----|-------|-------|-------|-------|
| x | 2 | 3 | 4 | 5 | 6 |
| y | 144 | 172.8 | 207.4 | 248.8 | 298.5 |

- Q.15 Determine the values of a and b so that the equation $y = a x^b$ best fits the following data by method of least squares.

| | | | | | | |
|---|------|-----|------|------|------|-----|
| x | 25 | 20 | 12 | 9 | 7 | 5 |
| y | 0.22 | 0.2 | 0.15 | 0.13 | 0.12 | 0.1 |

- Q.16 The pressure (P) and volume (V) of a gas are related by the equation $PV^W = C$, where C and W being constants. Fit this equation to the following set of observation.

| | | | | | | |
|---|------|---|------|------|------|------|
| P | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 |
| V | 1.62 | 1 | 0.75 | 0.62 | 0.52 | 0.46 |

- Q.17 Find interpolating polynomial for the data using Lagrange's method.

| | | | | |
|------|---|---|----|-----|
| x | 0 | 1 | 2 | 5 |
| f(x) | 2 | 3 | 12 | 147 |

- Q.18 Find value of y for $x = 0.5$ for the following table of x, y values using Newton's forward difference formula.

| | | | | | |
|---|---|---|----|-----|-----|
| x | 0 | 1 | 2 | 3 | 4 |
| y | 1 | 5 | 25 | 100 | 250 |

- Q.19 Fit the parabola $y = ax^2 + bx + c$ in least square sense to the data.

| | | | | | |
|---|----|----|----|----|----|
| x | 10 | 12 | 15 | 23 | 20 |
| y | 14 | 17 | 23 | 25 | 21 |

- Q.20 Explain the term interpolation.



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Department of Mechanical Engineering

Academic Year : 2022-23 (Term I)

Assignment 2 (Unit III & IV)

| Class : TE Mechanical Sandwich | | Numerical & Statistical Methods (302041) |
|--------------------------------|---------------------------|--|
| Roll No | Name of the Student | Questions to be attempted |
| 20MS001 | AGRAWAL JAY GANESH | Q.3, Q.9, Q.11, Q.20 |
| 19MS031 | ATUL BALU LOKHANDE | Q.3, Q.6, Q.14, Q.16 |
| 21MS301 | BHOI BHAVESH SUNIL | Q.1, Q.8, Q.13, Q.19 |
| 20MS002 | BHONSLE KARAN HAMBIR | Q.4, Q.8, Q.13, Q.20 |
| 20MS003 | BHOSALE JAYESH DATTATRAY | Q.2, Q.10, Q.15, Q.16 |
| 20MS004 | BUUNDELE PRERNAA DINESH | Q.3, Q.8, Q.11, Q.20 |
| 21MS302 | CHAUDHARI DEVENDRA ANIL | Q.5, Q.6, Q.15, Q.17 |
| 21MS303 | CHAUDHARI MOHAN DATTATRAY | Q.3, Q.8, Q.12, Q.19 |
| 21MS304 | CHAUDHARI ROHIT PRAMOD | Q.3, Q.10, Q.12, Q.20 |
| 21MS305 | CHAUDHARI SHALEM NARESH | Q.3, Q.6, Q.13, Q.20 |
| 20MS005 | CHOUDHARI KAILASH SOMARAM | Q.2, Q.7, Q.13, Q.19 |
| 21MS306 | CHOURE RAMHARI ASARAM | Q.2, Q.9, Q.15, Q.18 |
| 20MS006 | DAKLIYA YASH PRASHANT | Q.4, Q.10, Q.15, Q.20 |
| 21MS307 | DALE PRASHANT DILIPRAO | Q.2, Q.10, Q.13, Q.17 |
| 21MS308 | DATE DHANANJAY VILAS | Q.1, Q.10, Q.11, Q.20 |
| 21MS309 | DESHMUKH ATHANG VIVEK | Q.5, Q.10, Q.12, Q.16 |
| 21MS310 | GAIKWAD TEJAS SHAILENDRA | Q.1, Q.10, Q.13, Q.16 |
| 21MS311 | GARODI KUNAL NAMDEO | Q.4, Q.7, Q.12, Q.17 |
| 21MS312 | GHODERAO SHUBHAM ANIL | Q.1, Q.9, Q.15, Q.18 |
| 21MS313 | GORAD SAURAV GORAKSHANATH | Q.4, Q.8, Q.13, Q.16 |
| 21MS314 | GUGALE YASH SANDIP | Q.5, Q.7, Q.12, Q.18 |
| 20MS007 | GUJARATHI GAURANG PANKAJ | Q.4, Q.10, Q.13, Q.18 |
| 21MS315 | HATTARGE ABHISHEK ANIL | Q.3, Q.9, Q.13, Q.17 |
| 20MS008 | HATTEKAR NIKHIL ABHAY | Q.2, Q.8, Q.11, Q.18 |
| | | Q.5, Q.10, Q.11, Q.18 |

| Roll No | Name of the Student | Questions to be attempted |
|---------|---------------------------------|---------------------------|
| 20MS009 | INGALE ASAWARI DINKAR | Q.4, Q.6, Q.15, Q.19 |
| 20MS010 | IRALE SUMEET SURESH | Q.4, Q.8, Q.15, Q.19 |
| 20MS011 | JADHAV SHANTANU SANJAY | Q.2, Q.6, Q.15, Q.19 |
| 20MS012 | JADHAV SHASHWAT SHIVAJI | Q.3, Q.8, Q.13, Q.18 |
| 20MS013 | JAKAPURE SHIVSHANKAR SURESH | Q.4, Q.9, Q.13, Q.19 |
| 20MS014 | KADAM KRISHNA BALASAHEB | Q.2, Q.7, Q.12, Q.20 |
| 21MS317 | KADAM SIDDHANT SACHIN | Q.1, Q.8, Q.11, Q.16 |
| 21MS318 | KALE MANSI ULHAS | Q.5, Q.9, Q.12, Q.19 |
| 21MS319 | KARANJKAR ADITI RAMCHANDRA | Q.5, Q.6, Q.11, Q.19 |
| 20MS015 | KHARKAR PUSHPANJAY HEMKANT | Q.5, Q.6, Q.15, Q.16 |
| 21MS320 | KHATIB AFRID FIROJ | Q.3, Q.7, Q.12, Q.17 |
| 21MS321 | KSHIRSAGAR SHARVARI MADHUKAR | Q.3, Q.10, Q.15, Q.19 |
| 20MS016 | KULKARNI ABHISHEK PRASHANT | Q.4, Q.10, Q.15, Q.18 |
| 20MS017 | LATE PRATHAMESH GIRISH | Q.2, Q.6, Q.14, Q.19 |
| 21MS322 | LIMKAR SHAUNAK PRASHAANT | Q.3, Q.6, Q.12, Q.16 |
| 21MS323 | LONARI ROHIT SHANKAR | Q.5, Q.10, Q.12, Q.19 |
| 21MS324 | MAGARE OM SHIRISH | Q.4, Q.7, Q.14, Q.19 |
| 21MS325 | MALEKAR SARVESH DEEPAK | Q.1, Q.10, Q.12, Q.16 |
| 20MS018 | MANDALE ADITYA UMESH | Q.3, Q.8, Q.15, Q.19 |
| 21MS326 | MANE MANASI NARENDRA | Q.5, Q.8, Q.13, Q.19 |
| 20MS019 | MHASKE CHAITANYA MILIND | Q.5, Q.7, Q.15, Q.20 |
| 21MS327 | MUJAWAR MAHAMMADSAIF JAKIRHUSEN | Q.3, Q.8, Q.15, Q.16 |
| 21MS328 | PALANGE ATHARVA PRADEEP | Q.1, Q.10, Q.11, Q.16 |
| 21MS329 | PALI WAL SHEETAL SACHIN | Q.2, Q.6, Q.12, Q.19 |
| 20MS020 | PALVE VEDANT CHANDRAKANT | Q.4, Q.8, Q.11, Q.17 |
| 21MS330 | PANCHAL MAROTI DNYANOBA | Q.3, Q.7, Q.13, Q.20 |
| 20MS021 | PATEL YASH JAYANT | Q.1, Q.10, Q.13, Q.16 |
| 21MS331 | PATIL ADITYA AJAY | Q.1, Q.8, Q.13, Q.18 |
| 21MS332 | PATIL KANISHK SHARAD | Q.5, Q.7, Q.14, Q.19 |
| 20MS022 | PATIL PARTH DINKARRAO | Q.3, Q.6, Q.11, Q.16 |
| 21MS333 | PATIL PRAGATI UDAY | Q.5, Q.9, Q.12, Q.20 |
| 21MS334 | PATIL RAJ KIRAN | Q.4, Q.7, Q.14, Q.18 |
| 20MS023 | PATIL SIDDHESH MAHESH | Q.2, Q.7, Q.11, Q.18 |
| 20MS024 | PATIL YASH DIPAK | Q.5, Q.6, Q.15, Q.16 |

| Roll No | Name of the Student | Questions to be attempted |
|---------|--------------------------|---------------------------|
| 20MS025 | PIMPLE MALHAR AJIT | Q.3, Q.10, Q.15, Q.19 |
| 21MS336 | POMAN PRACHIT PRAVIN | Q.4, Q.10, Q.15, Q.18 |
| 21MS337 | RANE VISHAL PRAKASH | Q.2, Q.6, Q.14, Q.19 |
| 21MS338 | SABALE PRAHLAD GAUTAM | Q.3, Q.6, Q.12, Q.16 |
| 21MS339 | SHINDE SANDHYA DHARMRAJ | Q.5, Q.10, Q.12, Q.19 |
| 20MS026 | SHINDE YOGADA SANTOSH | Q.4, Q.7, Q.14, Q.19 |
| 20MS027 | SHIRODKAR ATHARWA SUHAS | Q.1, Q.10, Q.12, Q.16 |
| 21MS340 | SONAWANE GANESH NIMBA | Q.4, Q.10, Q.13, Q.18 |
| 20MS028 | SONAWANI PARTH SANJAY | Q.3, Q.9, Q.13, Q.17 |
| 21MS341 | SONDKAR SHWETA AMOL | Q.2, Q.8, Q.11, Q.18 |
| 21MS342 | SUTAR OMKAR BHARAT | Q.5, Q.10, Q.11, Q.18 |
| 21MS343 | TAKLE ANUJ BALASAHEB | Q.4, Q.6, Q.15, Q.19 |
| 21MS344 | TILEKAR CHETAN NANDKUMAR | Q.3, Q.6, Q.12, Q.16 |
| 20MS029 | URKUDE NIRANJAN JITENDRA | Q.5, Q.10, Q.12, Q.19 |
| 20MS030 | UTTEKAR ARYESH DHIRAJ | Q.4, Q.7, Q.14, Q.19 |
| 21MS345 | WAGHMARE SHUBHAM SANDIP | Q.1, Q.10, Q.12, Q.16 |
| 20MS031 | WELDE PARTH JAGDISH | Q.4, Q.10, Q.13, Q.18 |
| 20MS032 | YEVATEKAR YASH MUKUND | Q.3, Q.9, Q.13, Q.17 |



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Department of Mechanical Engineering

Course: Numerical & Statistical Methods (302041)

List of topics for mini projects

1. Exploratory data analysis on automobile data
2. Data Analysis from Machine Predictive Maintenance
3. Mechanical Fitting Failure Analysis using statistical method
4. Linear Regression Study on 3D printing dataset
5. Mechanical properties plot from stress strain curve data



DEPARTMENT OF MECHANICAL ENGINEERING

Assignment 2 (Unit III & Unit IV)

Course: Numerica I and Statistical Methods

Class: TE Mechanical Sandwich (A Y: 2022-23)

Unit 3

- Q.1 Explain the Trapezoidal rule with the help of flow chart.
- Q.2 Evaluate $\int_0^2 \frac{x}{\sqrt{2+x^2}} dx$ by using Trapezoidal rule with four strip
- Q.3 Find the integral $\int_0^\pi \sin(x) \cdot dx$ using Trapezoidal rule
- Q.4 Explain Simpson's $1/3^{\text{rd}}$ rule using graphical representation.
- Q.5 Evaluate $\int_0^4 e^x \cdot dx$ using Simpsons $1/3^{\text{rd}}$ rule using four strips
- Q.6 Evaluate $\int_1^2 \frac{e^x}{x} \cdot dx$ using Simpsons $1/3^{\text{rd}}$ rule using four strips
- Q.7 Explain Simpson's $3/8$ rule using flow chart.
- Q.8 Evaluate $\int_0^1 \frac{\sin x}{2+3\sin x} \cdot dx$ using Simpsons $3/8$ rule using four strips
- Q.9 Write a flow chart for Gauss Legendre 2 point formula.
- Q.10 Evaluate $\int_0^1 \frac{1}{1+x^2} \cdot dx$ use Gauss Legendre formula.

Unit 4

- Q.11 Draw flow chart to fit an equation $y = ax + b$
- Q.12 Determine constant a and b using method of least square such that $y = ax + b$ fits following data.

| | | | | | |
|---|-------|--------|--------|--------|--------|
| x | 2 | 4 | 6 | 8 | 10 |
| y | 4.077 | 11.084 | 30.128 | 81.128 | 222.62 |

- Q.13 Fit a straight line passing through the points

| | | | | |
|---|---|----|-----|-----|
| x | 1 | 2 | 5 | 7 |
| y | 1 | 12 | 117 | 317 |



DEPARTMENT OF MECHANICAL ENGINEERING

- Q.14 The equation of the best-fit curve is of the type $y = a b^x$. Find value of constant a and b . Fitting the curve through the points.

| | | | | | |
|---|-----|-------|-------|-------|-------|
| x | 2 | 3 | 4 | 5 | 6 |
| y | 144 | 172.8 | 207.4 | 248.8 | 298.5 |

- Q.15 Determine the values of a and b so that the equation $y = a x^b$ best fits the following data by method of least squares.

| | | | | | | |
|---|------|-----|------|------|------|-----|
| x | 25 | 20 | 12 | 9 | 7 | 5 |
| y | 0.22 | 0.2 | 0.15 | 0.13 | 0.12 | 0.1 |

- Q.16 The pressure (P) and volume (V) of a gas are related by the equation $PV^W = C$, where C and W being constants: Fit this equation to the following set of observation.

| | | | | | | |
|---|------|---|------|------|------|------|
| P | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 |
| V | 1.62 | 1 | 0.75 | 0.62 | 0.52 | 0.46 |

- Q.17 Find interpolating polynomial for the data using Lagrange's method.

| | | | | |
|------|---|---|----|-----|
| x | 0 | 1 | 2 | 5 |
| f(x) | 2 | 3 | 12 | 147 |

- Q.18 Find value of y for $x = 0.5$ for the following table of x, y values using Newton's forward difference formula.

| | | | | | |
|---|---|---|----|-----|-----|
| x | 0 | 1 | 2 | 3 | 4 |
| y | 1 | 5 | 25 | 100 | 250 |

- Q.19 Fit the parabola $y = ax^2 + bx + c$ in least square sense to the data.

| | | | | | |
|---|----|----|----|----|----|
| x | 10 | 12 | 15 | 23 | 20 |
| y | 14 | 17 | 23 | 25 | 21 |

- Q.20 Explain the term interpolation.



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Department of Mechanical Engineering
Academic Year : 2022-23 (Term I)
Assignment 2 (Unit III & IV)

Class : TE Mechanical Sandwich

**Numerical &
Statistical Methods
(302041)**

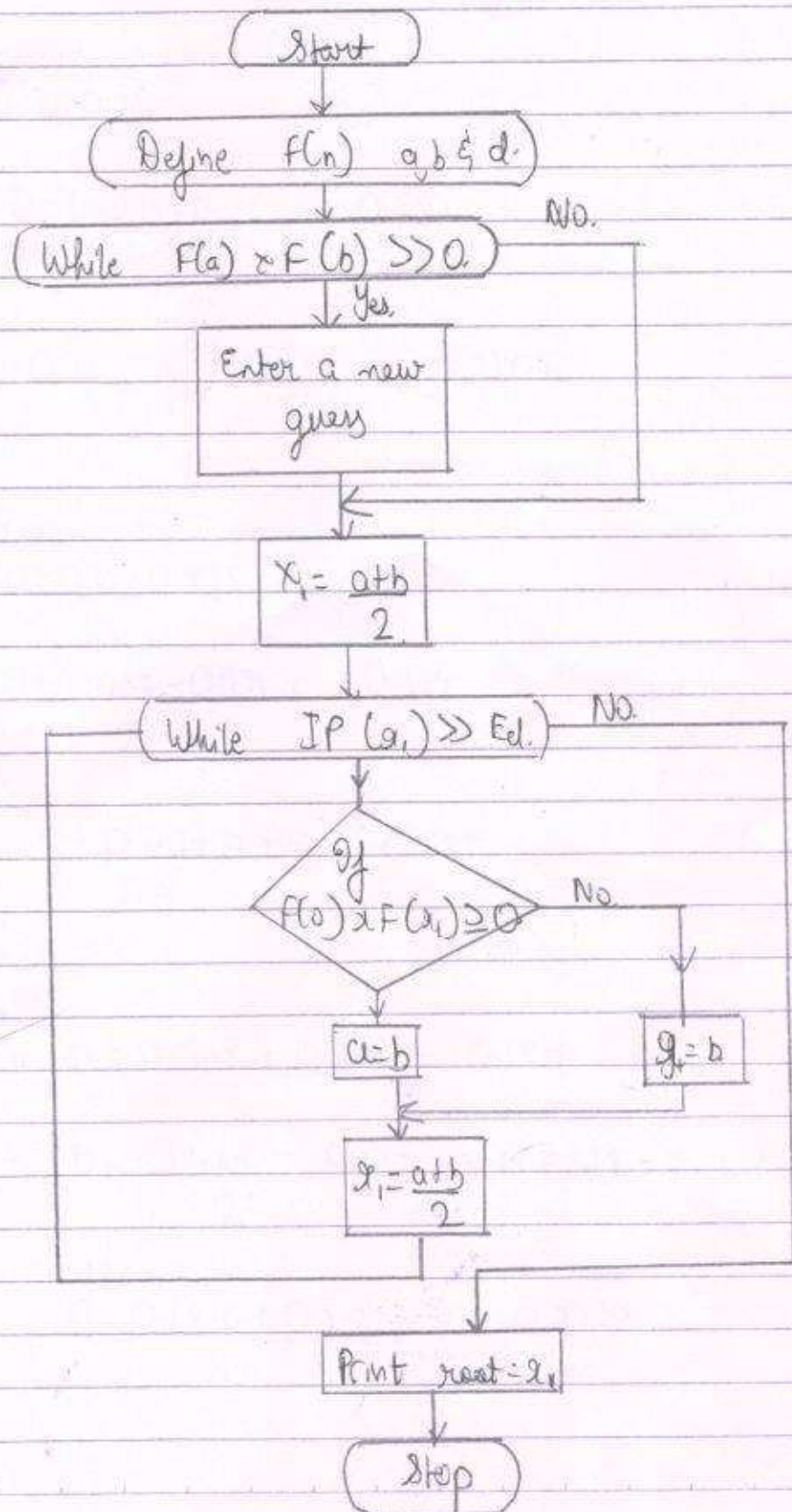
| Roll No | Name of the Student | Questions to be attempted |
|---------|---------------------------|---------------------------|
| 20MS001 | AGRAWAL JAY GANESH | Q.3, Q.9, Q.11, Q.20 |
| 19MS031 | ATUL BALU LOKHANDE | Q.3, Q.6, Q.14, Q.16 |
| 21MS301 | BHOI BHAVESH SUNIL | Q.1, Q.8, Q.13, Q.19 |
| 20MS002 | BHONSLE KARAN HAMBIR | Q.4, Q.8, Q.13, Q.20 |
| 20MS003 | BHOSALE JAYESH DATTATRAY | Q.2, Q.10, Q.15, Q.16 |
| 20MS004 | BUUNDELE PRERNAA DINESH | Q.3, Q.8, Q.11, Q.20 |
| 21MS302 | CHAUDHARI DEVENDRA ANIL | Q.5, Q.6, Q.15, Q.17 |
| 21MS303 | CHAUDHARI MOHAN DATTATRAY | Q.3, Q.8, Q.12, Q.19 |
| 21MS304 | CHAUDHARI ROHIT PRAMOD | Q.3, Q.10, Q.12, Q.20 |
| 21MS305 | CHAUDHARI SHALEM NARESH | Q.3, Q.6, Q.13, Q.20 |
| 20MS005 | CHOUDHARI KAILASH SOMARAM | Q.2, Q.7, Q.13, Q.19 |
| 21MS306 | CHOURE RAMHARI ASARAM | Q.2, Q.9, Q.15, Q.18 |
| 20MS006 | DAKLIYA YASH PRASHANT | Q.4, Q.10, Q.15, Q.20 |
| 21MS307 | DALE PRASHANT DILIPRAO | Q.2, Q.10, Q.13, Q.17 |
| 21MS308 | DATE DHANANJAY VILAS | Q.1, Q.10, Q.11, Q.20 |
| 21MS309 | DESHMUKH ATHANG VIVEK | Q.5, Q.10, Q.12, Q.16 |
| 21MS310 | GAIKWAD TEJAS SHAILENDRA | Q.1, Q.10, Q.13, Q.16 |
| 21MS311 | GARODI KUNAL NAMDEO | Q.4, Q.7, Q.12, Q.17 |
| 21MS312 | GHODERAU SHUBHAM ANIL | Q.1, Q.9, Q.15, Q.18 |
| 21MS313 | GORAD SAURAV GORAKSHANATH | Q.4, Q.8, Q.13, Q.16 |
| 21MS314 | GUGALE YASH SANDIP | Q.5, Q.7, Q.12, Q.18 |
| 20MS007 | GUJARATHI GAURANG PANKAJ | Q.4, Q.10, Q.13, Q.18 |
| 21MS315 | HATTARGE ABHISHEK ANIL | Q.3, Q.9, Q.13, Q.17 |
| 20MS008 | HATTEKAR NIKHIL ABHAY | Q.2, Q.8, Q.11, Q.18 |
| 21MS316 | HINGANE SHUBHAM VIKAS | Q.5, Q.10, Q.11, Q.18 |

| Roll No | Name of the Student | Questions to be attempted |
|---------|------------------------------------|---------------------------|
| 20MS009 | INGALE ASAWARI DINKAR | Q.4, Q.6, Q.15, Q.19 |
| 20MS010 | IRALE SUMEET SURESH | Q.4, Q.8, Q.15, Q.19 |
| 20MS011 | JADHAV SHANTANU SANJAY | Q.2, Q.6, Q.15, Q.19 |
| 20MS012 | JADHAV SHASHWAT SHIVAJI | Q.3, Q.8, Q.13, Q.18 |
| 20MS013 | JAKAPURE SHIVSHANKAR SURESH | Q.4, Q.9, Q.13, Q.19 |
| 20MS014 | KADAM KRISHNA BALASAHEB | Q.2, Q.7, Q.12, Q.20 |
| 21MS317 | KADAM SIDDHANT SACHIN | Q.1, Q.8, Q.11, Q.16 |
| 21MS318 | KALE MANSI ULHAS | Q.5, Q.9, Q.12, Q.19 |
| 21MS319 | KARANJKAR ADITI RAMCHANDRA | Q.5, Q.6, Q.11, Q.19 |
| 20MS015 | KHARKAR PUSHPANJAY HEMKANT | Q.5, Q.6, Q.15, Q.16 |
| 21MS320 | KHATIB AFRID FIROJ | Q.3, Q.7, Q.12, Q.17 |
| 21MS321 | KSHIRSAGAR SHARVARI MADHUKAR | Q.3, Q.10, Q.15, Q.19 |
| 20MS016 | KULKARNI ABHISHEK PRASHANT | Q.4, Q.10, Q.15, Q.18 |
| 20MS017 | LATE PRATHAMESH GIRISH | Q.2, Q.6, Q.14, Q.19 |
| 21MS322 | LIMKAR SHAUNAK PRASHAANT | Q.3, Q.6, Q.12, Q.16 |
| 21MS323 | LONARI ROHIT SHANKAR | Q.5, Q.10, Q.12, Q.19 |
| 21MS324 | MAGARE OM SHIRISH | Q.4, Q.7, Q.14, Q.19 |
| 21MS325 | MALEKAR SARVESH DEEPAK | Q.1, Q.10, Q.12, Q.16 |
| 20MS018 | MANDALE ADITYA UMESH | Q.3, Q.8, Q.15, Q.19 |
| 21MS326 | MANE MANASI NARENDRA | Q.5, Q.8, Q.13, Q.19 |
| 20MS019 | MHASKE CHAITANYA MILIND | Q.5, Q.7, Q.15, Q.20 |
| 21MS327 | MUJAWAR MAHAMMADSAIF IAKIRHUSEN | Q.3, Q.8, Q.15, Q.16 |
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| 21MS330 | PANCHAL MAROTI DNYANOBA | Q.3, Q.7, Q.13, Q.20 |
| 20MS021 | PATEL YASH JAYANT | Q.1, Q.10, Q.13, Q.16 |
| 21MS331 | PATIL ADITYA AJAY | Q.1, Q.8, Q.13, Q.18 |
| 21MS332 | PATIL KANISHK SHARAD | Q.5, Q.7, Q.14, Q.19 |
| 20MS022 | PATIL PARTH DINKARRAO | Q.3, Q.6, Q.11, Q.16 |
| 21MS333 | PATIL PRAGATI UDAY | Q.5, Q.9, Q.12, Q.20 |
| 21MS334 | PATIL RAJ KIRAN | Q.4, Q.7, Q.14, Q.18 |
| 20MS023 | PATIL SIDDHESH MAHESH | Q.2, Q.7, Q.11, Q.18 |
| 20MS024 | PATIL YASH DIPAK | Q.5, Q.6, Q.15, Q.16 |

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| 21MS336 | POMAN PRACHIT PRAVIN | Q.4, Q.10, Q.15, Q.18 |
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| 20MS027 | SHIRODKAR ATHARWA SUHAS | Q.1, Q.10, Q.12, Q.16 |
| 21MS340 | SONAWANE GANESH NIMBA | Q.4, Q.10, Q.13, Q.18 |
| 20MS028 | SONAWANI PARTH SANJAY | Q.3, Q.9, Q.13, Q.17 |
| 21MS341 | SONDKAR SHWETA AMOL | Q.2, Q.8, Q.11, Q.18 |
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| 21MS343 | TAKLE ANUJ BALASAHEB | Q.4, Q.6, Q.15, Q.19 |
| 21MS344 | TILEKAR CHETAN NANDKUMAR | Q.3, Q.6, Q.12, Q.16 |
| 20MS029 | URKUDE NIRANJAN JITENDRA | Q.5, Q.10, Q.12, Q.19 |
| 20MS030 | UTTEKAR ARYESH DHIRAJ | Q.4, Q.7, Q.14, Q.19 |
| 21MS345 | WAGHMARE SHUBHAM SANDIP | Q.1, Q.10, Q.12, Q.16 |
| 20MS031 | WELDE PARTH JAGDISH | Q.4, Q.10, Q.13, Q.18 |
| 20MS032 | YEVATEKAR YASH MUKUND | Q.3, Q.9, Q.13, Q.17 |

Assignment No-1

Q Flow chart for Bisection method [18,20].
Ans)



$$x^{(1)} = 0, \quad y^{(1)} = 0, \quad z^{(1)} = 0.75.$$

2nd iteration

$$x^2 = \frac{0 - 0 - 0.75}{3} = -0.25.$$

$$y^2 = \frac{0 - (-0.25) - 0.75}{2} = -0.25.$$

$$z^2 = -0.25, \quad y^2 = -0.25, \quad z^2 = 0.875.$$

3rd iteration

$$x^3 = \frac{0 + 0.25 - 0.875}{3} = -0.208$$

$$y^3 = \frac{0 + 0.208 - 0.875}{2} = -0.334.$$

$$z^3 = \frac{3 + 0.208 + 0.334}{4} = 0.885.$$

4th iteration

$$x^4 = \frac{0 + 0.208 + 0.334}{3} = 0.1806$$

$$y^4 = \frac{0 - 0.1806 - 0.885}{2} = -0.5328$$

$$z^4 = \frac{3 - 0.1806 + 0.5328}{4} = 0.8280$$

Q-3) Use Euler's method with $h=0.5$ to solve initial value problem to interval $x=0$ to 2 $dx = yx^2 - 1.1y$ where $y(0)=1$.

Ans-3) $n = \frac{x_2 - x_0}{h} = \frac{2-0}{0.5} = 4$

Iteration $x_0=0$, $y_0=1$, $y_1=2$ at $x=0.5$.

$$\begin{aligned} f(x_0, y_0) &= y_0 x_0^2 - 1.1 y_0 \\ &= 1 \times 0^2 - 1.1 \times 1 \\ &= -1.1 \end{aligned}$$

$$\begin{aligned} y_1 &= y_0 + h f(x_0, y_0) \\ &= 1 + [0.5(-1.1)] \\ &= 0.45 \end{aligned}$$

Iteration- $y_2=9$ at $x_2=1$.

$$\begin{aligned} f(x_1, y_1) &= y_1 x_1^2 - 1.1 y_1 \\ &= 0.45 \times (0.5)^2 - (1.1) \times 0.45 \\ &= -0.3825 \end{aligned}$$

$$\begin{aligned} y_2 &= y_1 + h f(x_1, y_1) \\ &= 0.45 + 0.5 \times -0.3825 \\ &= 0.2875 \end{aligned}$$

Iteration-3:- y_1 at $x_3 = 1.5$, $y_2 = 0.287$, $y_1 =$

$$\begin{aligned}
 f(x_2, y_2) &= y_2 x_2^2 - 1.1 y_2 \\
 &= 0.25875 \times 1.5^2 - 1.1 \times 0.2875 \\
 &= y_2 f(x_2, y_2) \\
 &= 0.2875 + 0.5 \times (-0.025875) \\
 &= 0.2458
 \end{aligned}$$

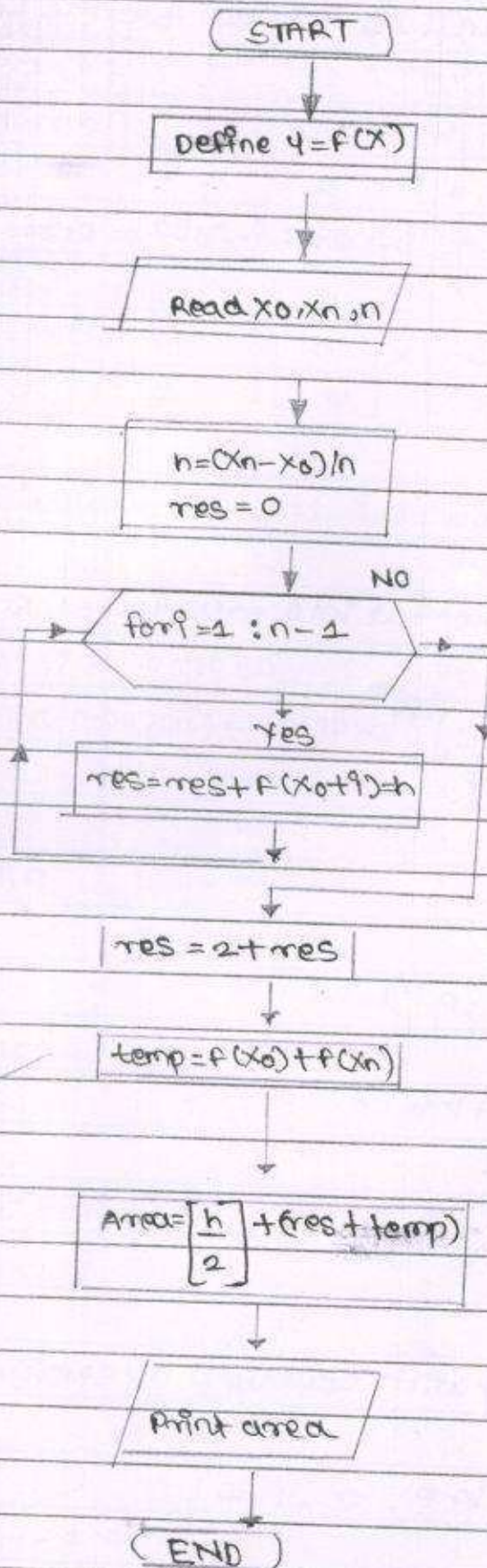
Iteration-4:- at y_1 : $x_3 = 1.5$, $y_3 = 0.274$.

$$\begin{aligned}
 f(x_3, y_3) &= y_3 x_3^2 - 1.1 y_3 \\
 &= 0.2458125 \times [1.5]^2 - 1.1 \times 0.2458125 \\
 &= 0.282694375
 \end{aligned}$$

$$\begin{aligned}
 y_4 &= y_3 + h \cdot f(x_3, y_3) \\
 &= 0.2458125 + 0.5 \times [0.282694] \\
 &= 0.397154
 \end{aligned}$$

✓

ASSIGNMENT: 2



Q. The pressure (P) & volume (V) of a gas are related by the equation $PV^\gamma = K$, where γ & K are constants. Fit this eqn for the following set of observations:-

| | | | | | | |
|------------------------|------|---|------|------|------|------|
| P (kg/m ²) | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 |
| V (litres) | 4.62 | 1 | 0.75 | 0.62 | 0.52 | 0.46 |

A. GIVEN DATA:-

$$PV^\gamma = K, \quad n = 6$$

FIND: Constant γ & K

STEP:- Convert the polynomial into equations of straight lines.

$$PV^\gamma = K \quad \text{or} \quad V = \left(\frac{K}{P} \right)^{1/\gamma}$$

Taking \ln on both sides,

$$\ln V = \ln \left(K^{1/\gamma} \cdot P^{-1/\gamma} \right)$$

$$\therefore \ln V = \ln K^{1/\gamma} + \ln P^{-1/\gamma}$$

$$\therefore \ln V = \frac{1}{\gamma} \ln K - \frac{1}{\gamma} \ln P \quad \dots (1)$$

Equating equation (1) with equations of straight line,

$$\ln V = -\frac{1}{\gamma} \ln P + \frac{1}{\gamma} \ln K$$

write equation in matrix form,

$$\begin{bmatrix} 2.4202 & 6 \\ 3.1712 & 2.4202 \end{bmatrix} \begin{bmatrix} a' \\ b' \end{bmatrix} = \begin{bmatrix} -1.7136 \\ -2.2342 \end{bmatrix}$$

Solve the above matrix by Gauss elimination Methods,

$$\begin{bmatrix} 1 & 2.4791 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} a' \\ b' \end{bmatrix} = \begin{bmatrix} -0.7080 \\ -0.00202 \end{bmatrix}$$

Solving Simultaneous eqⁿ by backward Substitution methods,

$$b' = -0.00202$$

$$a' + 2.4791 b' = -0.7080$$

$$a' + 2.4791 \times (-0.00202) = -0.7080$$

$$a' = -0.7029$$

from eqⁿ (1)

$$a' = \frac{1}{y}$$

$$\therefore -0.7029 = \frac{-1}{y}$$

$$b' = \frac{1}{y} \ln k$$

$$-0.00202 = \frac{1}{1.4226} \ln k$$

$$\therefore k = 1.0028$$

$$\begin{array}{cccc} \downarrow & \downarrow & \downarrow & \downarrow \\ Y & a' & X & b' \end{array}$$

where, $Y = \ln v$, $X = \ln p$

$$a' = -\frac{1}{Y}, \quad b' = \frac{1}{Y} \ln K$$

STEP 2: Make a table for given values of p & v .

| p | v | $x = \ln p$ | $y = \ln v$ | xy | x^2 |
|-----|------|--------------------|----------------------|----------------------|-----------------------|
| 0.5 | 1.02 | -0.6931 | 0.4824 | -0.3343 | 0.4803 |
| 1 | 1 | 0 | 0 | 0 | 0 |
| 1.5 | 0.75 | 0.4054 | -0.2876 | -0.1165 | 0.1643 |
| 2 | 0.62 | 0.6931 | -0.4780 | -0.3313 | 0.4803 |
| 2.5 | 0.52 | 0.9162 | -0.6539 | -0.5991 | 0.8394 |
| 3 | 0.46 | 1.0986 | -0.7765 | -0.8530 | 1.2069 |
| | | $\Sigma x = 2.402$ | $\Sigma y = -1.7136$ | $\Sigma xy = -2.324$ | $\Sigma x^2 = 3.1712$ |

STEP 3: - calculate the value of constant γ & K .

for straight line,

$$a' \Sigma x + nb' = \Sigma y$$

$$a' \Sigma x^2 + b' \Sigma x = \Sigma xy$$

Substituting corresponding values in equations

$$2.4202a' + 6b' = -1.7136$$

$$3.1712a' + 2.4202b' = -2.3242$$



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Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra,
Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC
(Id.No. PU / PN/ Engg. / 093 (1992)
(Accredited by NAAC with grade A+)



Department of Mechanical Engineering

Academic Year: 2022-23

Semester: I

Class: SE (Mech)/Mech SW Div: B

Assignment: I

Subject: Solid Mechanics

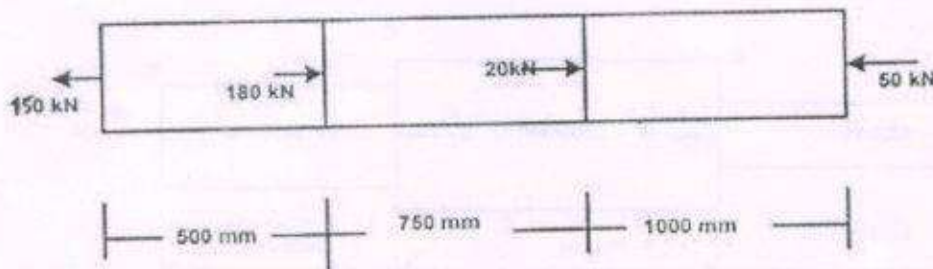
Maximum marks: 15

[CO1]. DEFINE various types of stresses and strain developed on determinate and indeterminate members.

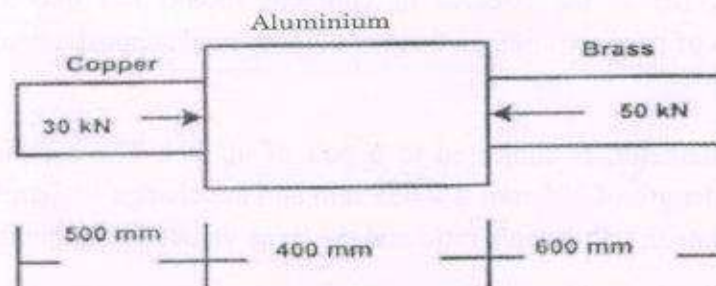
[CO2]. DRAW Shear force and bending moment diagram for various types of transverse loading and support.

[CO3]. COMPUTE the slope & deflection, bending stresses and shear stresses on a beam.

- 1 A bar made of Brass and having cross-sectional area 1000 mm^2 is subjected to axial forces as shown in figure. Find the total change in length of the bar. Take $E = 1.05 \times 10^5 \text{ N/mm}^2$. [CO1] [5]

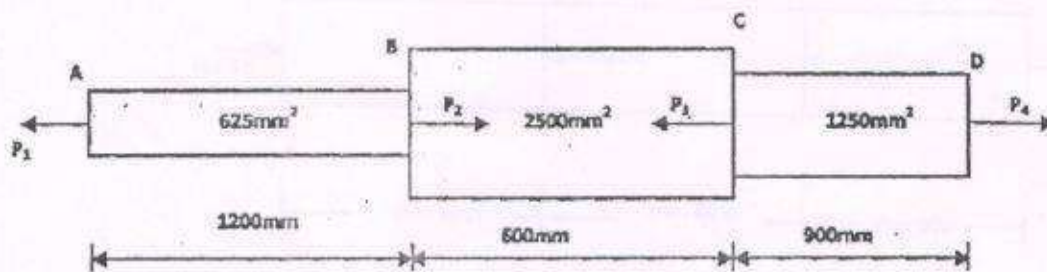


- 2 For the composite section fixed at both ends as shown in, find: (i) Reactions at both ends (ii) Stresses in each part (iii) Construct axial force diagram. Assume: for Copper, $A_{Cu} = 4000 \text{ mm}^2$, $E_{Cu} = 120 \text{ kN/mm}^2$, for Aluminium, $A_{Al} = 6000 \text{ mm}^2$, $E_{Al} = 70 \text{ kN/mm}^2$ and for Brass, $A_{Br} = 5500 \text{ mm}^2$, $E_{Br} = 100 \text{ kN/mm}^2$. [CO1] [5]



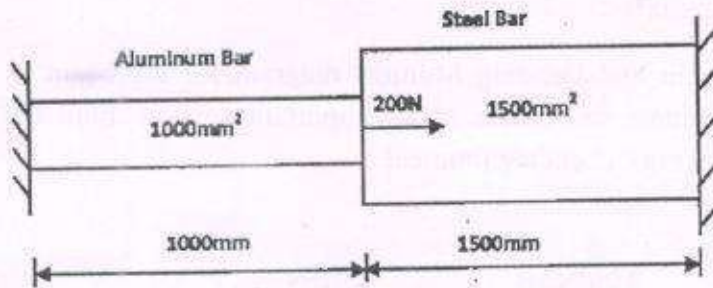
- 3 A cylindrical piece of steel 80 mm diameter and 120 mm long is subjected to an axial compressive force 70 kN. Calculate the change in volume of the piece if Bulk modulus is $1.7 \times 10^5 \text{ N/mm}^2$ and Poisson's ratio is 0.3. [CO1] [5]

- 4 A steel rod of 30 mm diameter is placed centrally inside a hollow Bronze tube of external diameter 40 mm. The steel rod is tightly fitted with bronze tube so that entire section acts as composite section subjected to compressive force of 30 kN. Determine stresses in rod and tube when temperature falls by 30°C . Assume: $E_{\text{st}} = 2 \times 10^5 \text{ N/mm}^2$; $E_{\text{br}} = 8 \times 10^4 \text{ N/mm}^2$; $\alpha_{\text{st}} = 12 \times 10^{-6} / ^{\circ}\text{C}$; $\alpha_{\text{br}} = 18 \times 10^{-6} / ^{\circ}\text{C}$. [CO1] [5]
- 5 A compound bar ABC 1.5 m long is made up of two parts 'AB' of aluminium and 'BC' of steel having cross-sectional area of steel half of the aluminum bar. The rod is fixed at 'A' and subjected to an axial pull of 200 kN at end 'C'. If the elongations of both materials is equal, find the lengths of each part assuming $E_{\text{st}} = 200 \text{ GPa}$ and E_{Al} as one third of steel. [CO1] [5]
- 6 A steel bar 2 m long is at 30°C . The temperature of the rod is increased by 150°C . Find: (i) free expansion of the rod (ii) temperature stress produced if expansion is prevented and nature of the stress (iii) stress produced if 2.5 mm expansion is permitted. Assume supports are unyielding? Take $E = 210 \text{ GPa}$, and $\alpha = 12 \times 10^{-6} / ^{\circ}\text{C}$. Assume bar diameter = 16 mm. [CO1] [5]
- 7 A member ABCD is subjected to point loads P_1 , P_2 , P_3 and P_4 as shown in the figure. Calculate the force P_2 necessary for equilibrium if $P_1 = 45 \text{ kN}$, $P_3 = 450 \text{ kN}$ and $P_4 = 130 \text{ kN}$. Determine the total elongation of the member, assuming Modulus of Elasticity to be $E = 2.1 \times 10^5 \text{ N/mm}^2$. [CO1] [5]

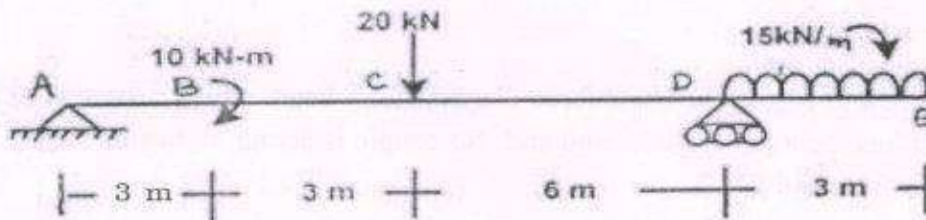


- 8 A load of 300 kN is applied on a short concrete column $250 \text{ mm} \times 250 \text{ mm}$. The column is reinforced by steel bars of total area 5600 mm^2 . If the Modulus of Elasticity for steel is 15 times to that of concrete, find : (i) The stresses in concrete and steel. (ii) If the stresses in concrete should not exceed 4 N/mm^2 , find the area of steel required so that the column may support a load of 600 kN. [CO1] [5]
- 9 A bar of 25 mm diameter, is subjected to a pull of 40 kN. The measured extension on gauge length of 200 mm is 0.085 mm and the change in diameter is 0.003 mm. Calculate the Poisson's ratio and the three values of the moduli. [CO1] [5]
- 10 A composite bar made up of Aluminum bar and steel bar is firmly held between two unyielding supports as shown in Fig. 2.1. An axial load of 200 kN is applied at B at 20°C . Find the stresses in each material, when the [CO1] [5]

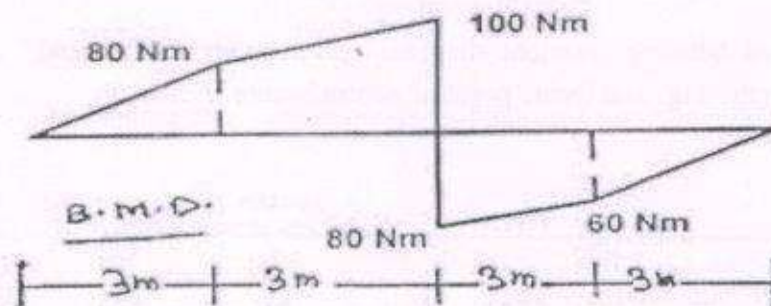
temperature is 70°C . Take E for Aluminum and Steel as $0.7 \times 10^5 \text{ N/mm}^2$ and $2 \times 10^5 \text{ N/mm}^2$ respectively and coefficient of expansions for Aluminum and steel as $24 \times 10^{-6} \text{ per } ^{\circ}\text{C}$ and $12 \times 10^{-6} \text{ per } ^{\circ}\text{C}$ respectively.



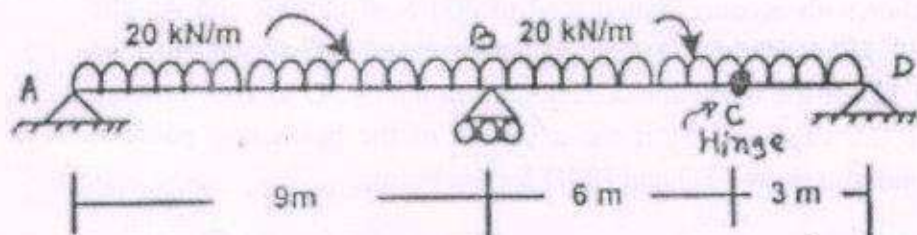
- 11 Construct shear force and bending moment diagrams for a beam loaded as shown in and locate point of contra flexure: [CO2] [5]



- 12 The beam with overhangs on both sides is having total length of 10 m. It carries a UDL of 180 N/m all over the span in addition to a point load of 200 N at the left end. The beam is supported at two points 7 m apart so chosen that each support carries half the total load. Draw S.F.D. and B.M.D. [CO2] [5]
- 13 The bending moment diagram of a beam of span 12 m is as shown in figure. Construct shear force diagram and load diagram. [CO2] [5]

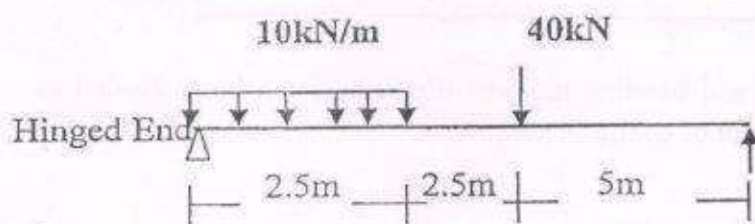


- 14 Draw S.F.D. and B.M.D. for the beam ABCD loaded as shown in figure. [CO2] [5]

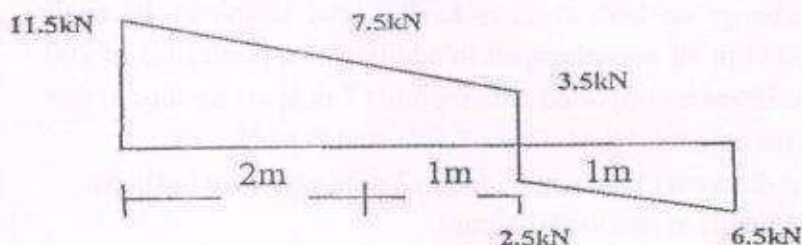


- 15 An overhanging beam ABC with end 'A' hinged and simply supported at 'B' is loaded with udl of intensity 30 kN/m acting on 2 m length from 'A' and a point load of 10 kN acting at free end 'C'. Draw B.M.D. and S.F.D. Assume length(AB) = 4 m and length(BC) = 1 m . [CO2] [5]

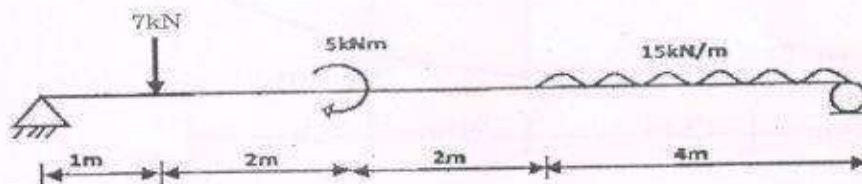
- 16 Draw Shear force diagram and Bending Moment diagram for the beam as shown in. Indicate the numerical values at all important section. Find the position and value of maximum bending moment. [CO2] [5]



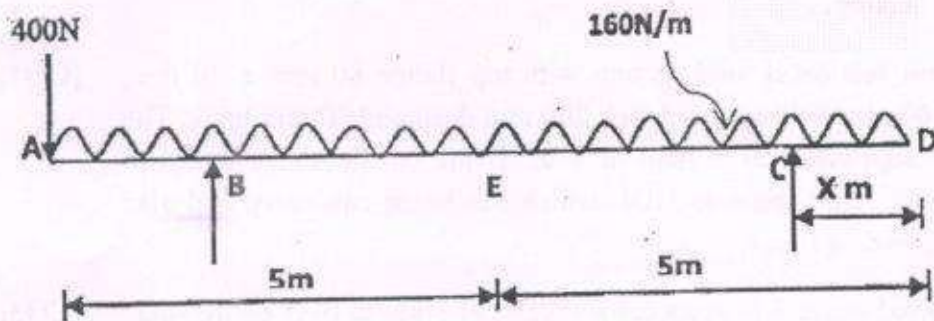
- 17 The diagram shown in Fig. is the shear force diagram for a beam which rests on two supports, one being at the left hand end. No couple is acting on beam. Draw loading diagram and BMD. [CO2] [5]



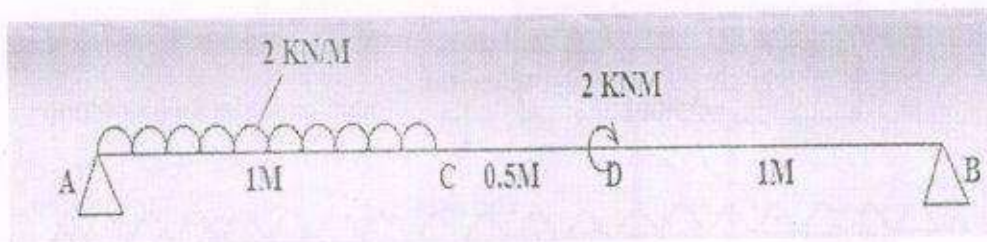
- 18 Draw shear force and bending moment diagram for a beam loaded and supported as shown in the Fig. and locate point of contraflexure. [CO2] [5]



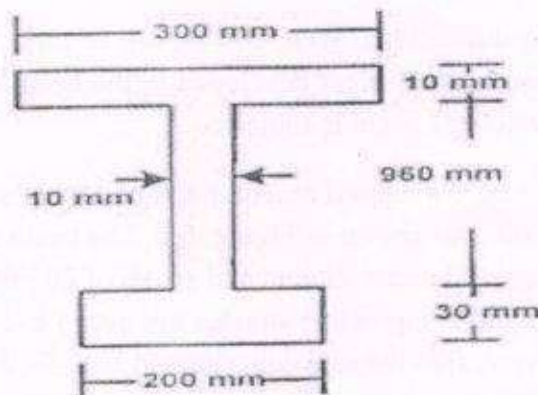
- 19 Q9. A horizontal beam AD, 10 m long carries a uniformly distributed load of 160 N/m together with a concentrated load of 400 N at the left end A. The beam is supported at a point B which is 1 m from A and at C which is on the right hand half ED of the beam and X meters from the end D as shown in the Fig. Determine the value of X , if the midpoint of the beam is a point of contraflexure and also draw SFD and BMD for the beam. [CO2] [5]



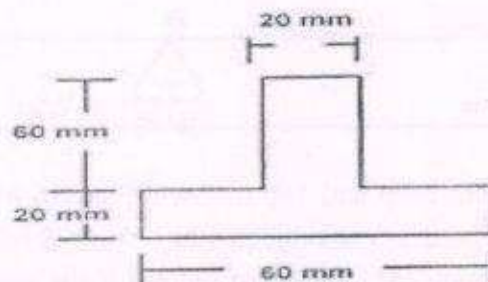
- 20 A simply supported beam subjected to a uniformly distributed load and a clockwise couple is shown in figure. Draw the shear force and bending moment diagram. [CO2] [5]



- 21 A beam of span 4 m carries UDL of 15 kN/m. The cross-section of the beam is as shown in Figure. Find maximum stress induced. Draw bending stress diagram. [CO3] [5]



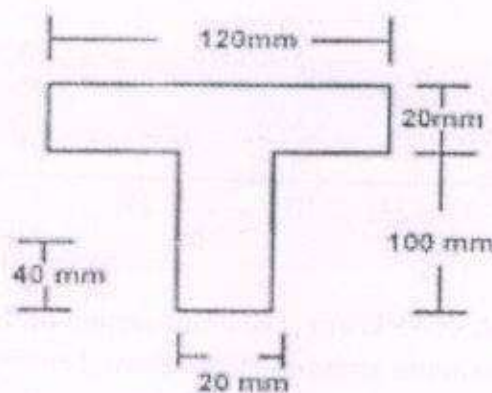
- 22 The cross-section of the beam is as shown in Figure. If this cross-section is subjected to shear force of 15 kN, draw shear stress distribution diagram and find ratio of maximum shear stress to average shear stress. [CO3] [5]



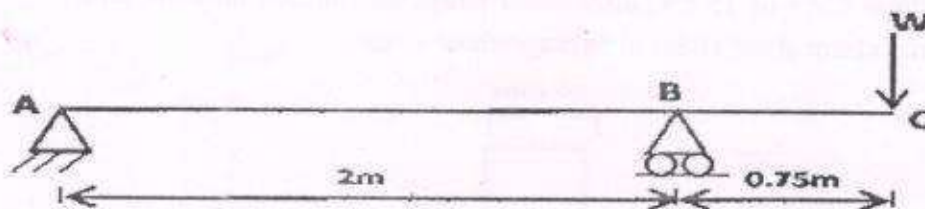
- 23 Construct the shear stress distribution diagrams showing salient points: (i) Rectangular section (ii) Symmetrical I-section (iii) Triangular section (iv) [CO3] [5]

Hollow circular section.

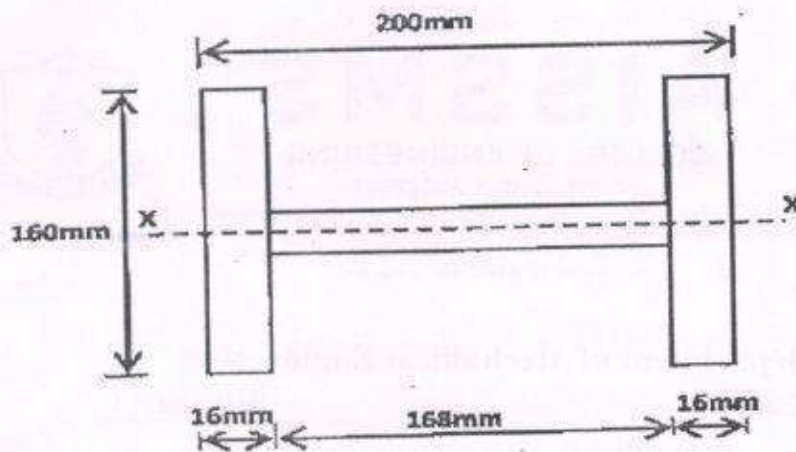
- 24 A cast iron beam section is an I section with top flange $80 \text{ mm} \times 20 \text{ mm}$, bottom flange $160 \text{ mm} \times 40 \text{ mm}$ and web 200 mm deep and 20 mm thick. The beam is simply supported on a span of 5 m . If the tensile stress is not to exceed 20 N/mm^2 , find the safe UDL which the beam can carry and also maximum compressive stress. [CO3] [5]
- 25 A simply supported beam 8 m span carries UDL of 3 kN/m over entire span. Find the maximum bending stress induced if the cross-section is as shown in Figure. [CO3] [5]



- 26 An I section has the following dimensions. Web: $300 \text{ mm} \times 10 \text{ mm}$, Flange $150 \text{ mm} \times 20 \text{ mm}$. The maximum shear stress developed in the beam is 14.8 MPa . Find the shear force to which the beam is subjected. [CO3] [5]
- 27 A cast iron beam 2.75 m long has one support at left end A and other support at B which is at 0.75 m from end C as shown in Figure. 5.1. The beam is of T section consisting of a top flange $150 \text{ mm} \times 20 \text{ mm}$ and a web of 20 mm wide and 80 mm deep. If the tensile and compressive stresses are not to exceed 40 N/mm^2 and 70 N/mm^2 respectively, find the safe concentrated load W that can be applied at the right end of the beam. [CO3] [5]



- 28 A steel beam of I section, 200 mm deep and 160 mm wide has 16 mm thick flanges and 10 mm thick web. The beam is subjected to a shear force of 200 kN . Determine the stress distribution over the beam section if the web of the beam is kept horizontal as shown in Figure. [CO3] [5]

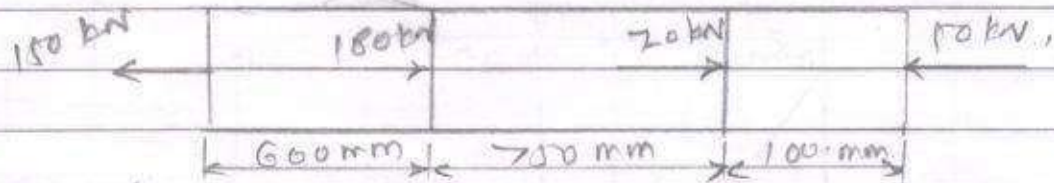


- 29 Q9. A steel beam of I section, 500 mm deep and 190 mm wide has 25mm thick flanges and 15mm thick web. The beam is subjected to a shear force of 400 kN. Calculate the maximum intensity of shear stress in the section assuming the moment of inertia to be $6.45 \times 10^8 \text{ mm}^4$. Also calculate the total shear force carried by the web and sketch the shear stress distribution across the section. [CO3] [5]
- 30 A simply supported beam of span 4 m uses a T section with flange 100×10 mm deep and web 150×10 mm wide. The section is symmetric about vertical axis. The beam carries two point loads 5 kN each placed 1 m from ends point. Find out maximum shear stress in the beam. [CO3] [5]

Assignment no.1.

15

1. A bar made of brass having L/S 1500 mm^3 is subjected to axial forces shown in fig. Find total change in length. take $E = 1.05 \times 10^5 \text{ N/mm}^2$.



$$\delta l = \left(\frac{PL}{AE} \right)_1 + \left(\frac{PL}{AE} \right)_2 + \left(\frac{PL}{AE} \right)_3$$

$$\delta l = \frac{1}{1500 \times 1.05 \times 10^5} \times (PL_1 + PL_2 + PL_3)$$

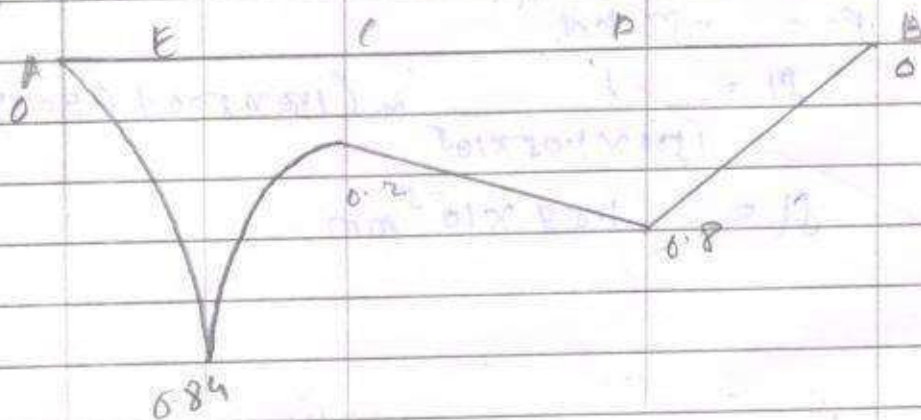
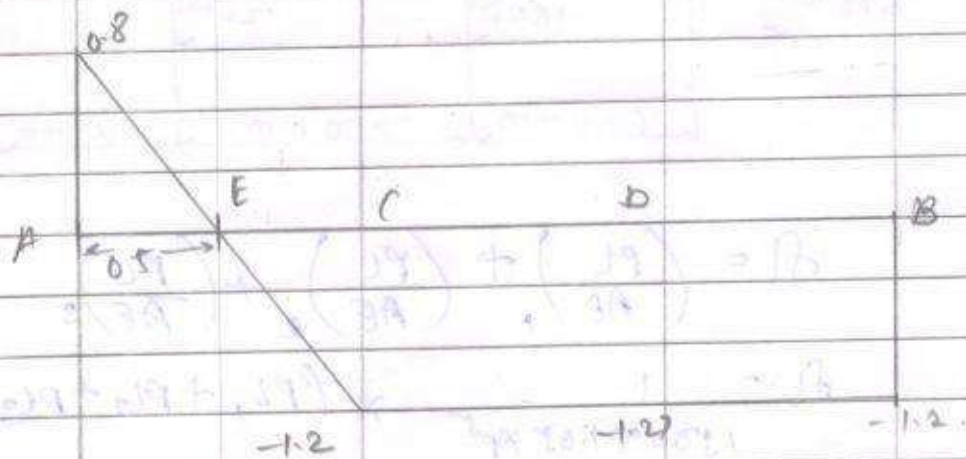
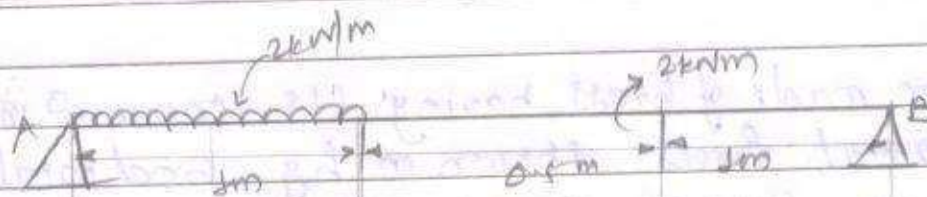
$$P_1 = 150 \text{ kN}$$

$$P_2 = 180 - 150 = 30 \text{ kN} \quad \text{--- (Compression)}$$

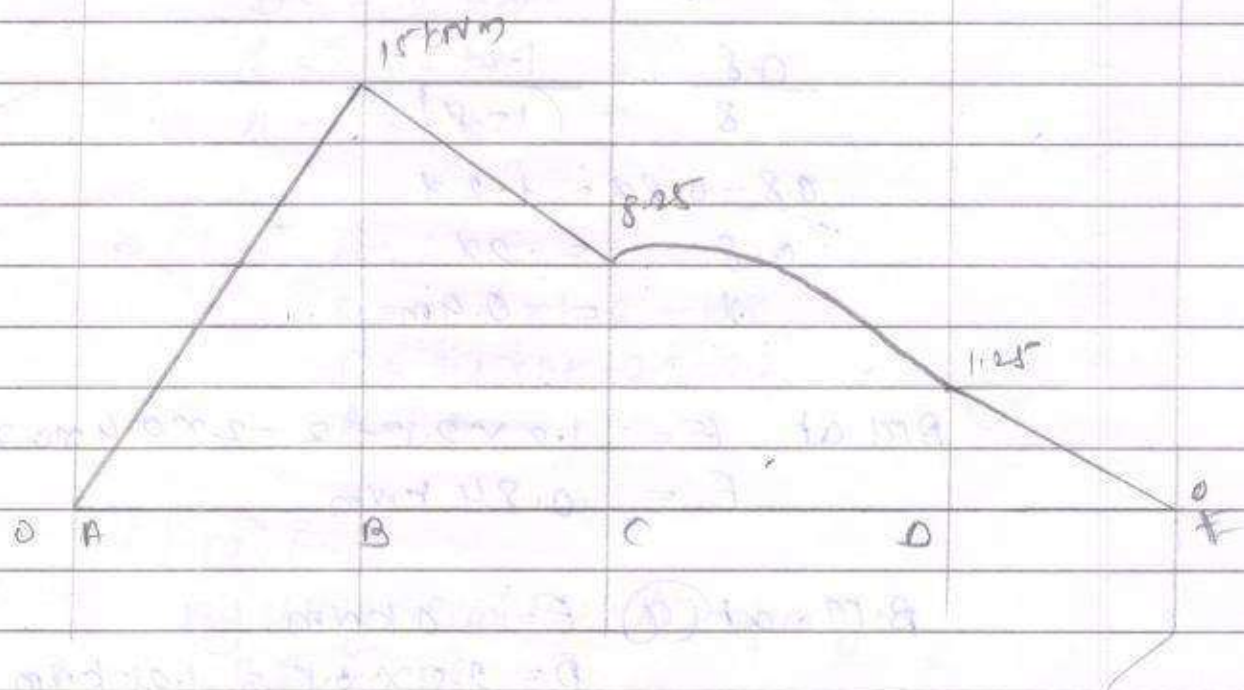
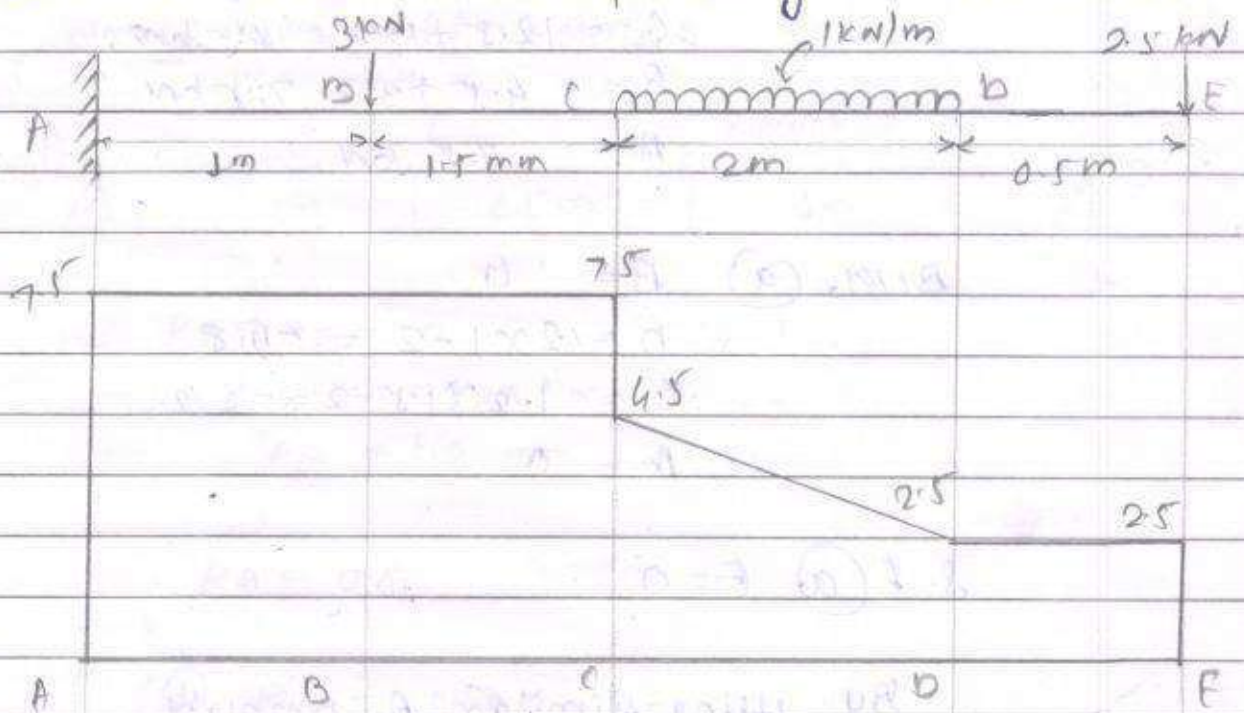
$$P_3 = -50 \text{ kN}$$

$$\delta l = \frac{1}{1500 \times 1.05 \times 10^5} \times (150 \times 600 + (-30 \times 700) + (-50 \times 200))$$

$$\delta l = 1.89 \times 10^{-5} \text{ mm}$$



2. Construct shear force diagram & B.M.D for a beam loaded as shown in total point of contra-flexure.



→ S.F. (a) $E = 2.5 \text{ kN}$
 $D = 2.5 = 5 \text{ kN}$
 $C = 2.5 + 1 \times 2 = 4.5 \text{ kN}$
 $B = 4.5 + 3 = 7.5 \text{ kN}$
 $A = 7.5 \text{ kN}$

B.M. (a) $B = 0$
 $D = 1.2 \times 1 - 2 = -0.8$
 $C = 1.2 \times 1.5 - 2 = -0.2$
 $A = 0$

S.F. (a) $E = 0$

By using similar A property

$$\frac{0.8}{8} = \frac{1.2}{(1-x)}$$

$$0.8 - 0.8x = 1.2x$$

$$0.8 = 2x$$

$$x = 0.4 \text{ m}$$

B.M. at $E = 1.2 \times 2.5 - 2 - 2 \times 0.4 \times 0.2$
 $E = 0.84 \text{ kNm}$

B.M. at (a) $E = 0 \text{ kNm}$

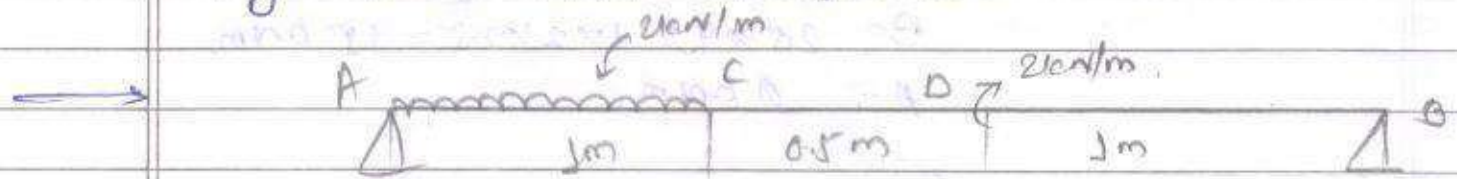
$$D = 2.5 \times 0.5 = 1.25 \text{ kNm}$$

$$C = 2.5 \times 2.5 + 1 \times 2 \times \frac{2}{2} = 8.25 \text{ kNm}$$

$$B = 2.5 \times 4 + 1 \times 2 \times 2.5 = 15 \text{ kNm}$$

$$A = 0 \text{ kNm}$$

- B. A simply supported beam subjected to a uniformly distributed load and a clockwise couple is shown in Fig. draw neat SFD & BMD.



$$R_A + R_B = 2.$$

$$- R_B \times 2.5 = 2 + 2 \times 1 \times 0.5$$

$$R_B = 1.2.$$

$$R_A = 0.8.$$

S.F. (i) $B = -1.2 \text{ kN}$

$$D = -1.2 \text{ kN}$$

$$C = -1.2 \text{ kN}$$

$$A = 0.8 \text{ kN}.$$

B.M at $B = 0.$

$$D = 1.2 \times 1 = 2 = -0.8$$

$$C = 1.2 \times 1.5 = 2 = -0.2$$

$$A = 0.$$

S.F. (ii) $F = 0$

By using similar Δ property.

$$\frac{0.8}{x} = \frac{1.2}{(1-x)}$$

$$0.8 - 0.8x = 1.2x$$

$$0.8 = 2x$$

$$x = 0.4 \text{ m}.$$

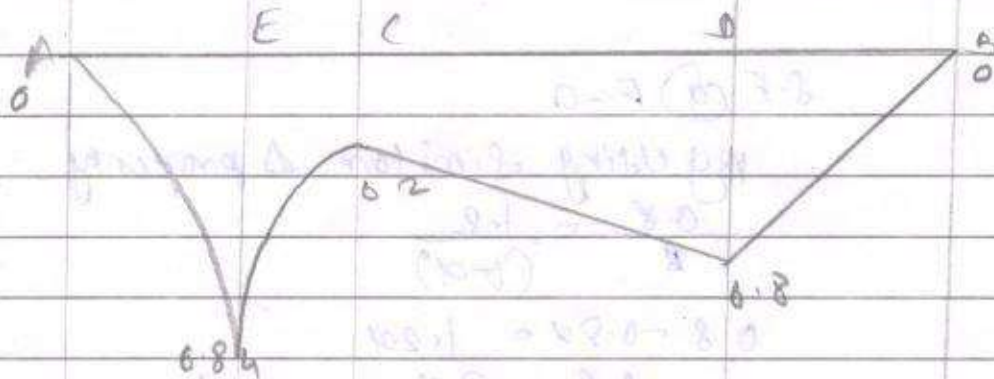
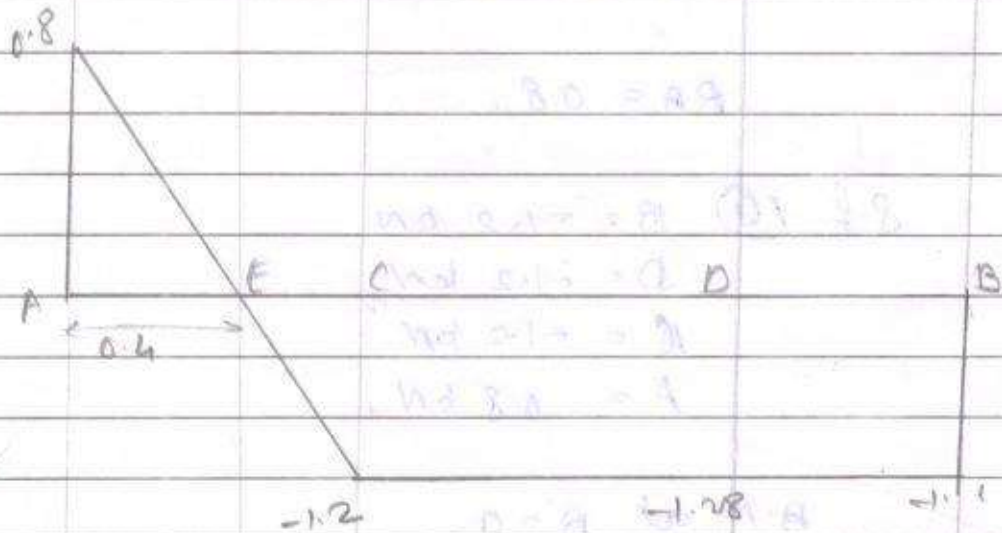
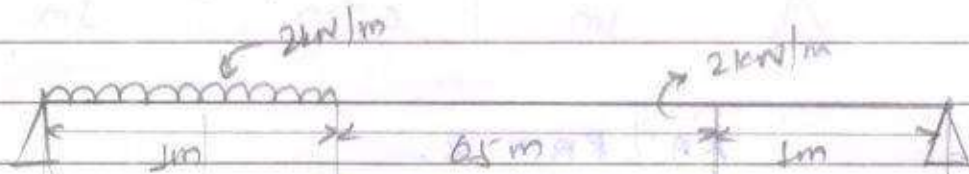
B.M at F = 0.10 kNm

$$D = 2.5 \times 0.5 = 1.25 \text{ kNm}$$

$$C = 2.5 \times 2.5 + 1 \times 2 \times \frac{2}{2} = 8.25 \text{ kNm}$$

$$B = 2.5 \times 4 + 1 \times 2 \times 2.5 = 15 \text{ kNm}$$

$$A = 0 \text{ kNm}$$





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DEPARTMENT OF PRODUCTION ENGINEERING

Assignment I
Result Analysis

Class: *S. E. Prod Eng*
Subject: *Manufacturing process-II*
Total No of Students As per Roll Call List:

AY: 2022-23
Term II

| Sr. No. | Description | Total No. of Students | Percentage (%) |
|---------|---------------------------------|-----------------------|----------------|
| 1 | Students Appear for Examination | <i>03</i> | <i>63.63%</i> |
| 2 | Students Absent for Examination | <i>04</i> | <i>36.33%</i> |
| 3 | Students Passed | <i>03</i> | <i>63.63%</i> |
| 4 | Students Failed | <i>04</i> | <i>36.33%</i> |

Sign of Faculty:
Name of Faculty:
Date:

S. K. Bidgar

Mr S K Bidgar
Exam Coordinator

Dr N G Shekapure
HOD

Head of Department
Production Engineering
AISSMS COE, PUNE I



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DEPARTMENT OF PRODUCTION ENGINEERING
Assignment I Marksheet

Class: S.E. Prod Engg
Subject: Manufacturing Process II

| SR. No | ROLL NO. | NAME OF THE STUDENTS | Marks | Remark |
|--------|----------|--------------------------|-------|--------|
| 1 | 21PS001 | WABLE SARTHAK PRAWIN | A | |
| 2 | 22PS301 | ATIWADKAR PARTH PANDIT | 24 | |
| 3 | 22PS302 | BHAGAT HARSHADA HARI | 18 | |
| 4 | 22PS303 | CHOBHE SHRIRAM NAMDEV | A | |
| 5 | 22PS304 | DESHMUKH SHREEJA GANESH | A | |
| 6 | 22PS305 | GADAKH ABHISHEK ASHOKRAO | 25 | |
| 7 | 22PS306 | HANDE VAISHNAVI GANESH | 25 | |
| 8 | 22PS307 | KADAM ADITYA UDAY | 24 | |
| 9 | 22PS308 | KHADKE UMESH BALASAHEB | A | |
| 10 | 22PS309 | NAVSUPE TEJAS POPAT | 20 | |
| 11 | 22PS310 | WAGH OMKAR SANTOSH | 20 | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
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Signature of Examiner

Head of Department

Head of Department
Production Engineering
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DEPARTMENT OF PRODUCTION ENGINEERING

Assg. I ~~Unit Test II~~ Attendance Sheet

Class:

S.E. Prod Eng

Date:

Subject:

Manufacturing Process II

Time:

| SR. No | ROLL NO. | NAME OF THE STUDENTS | Signature |
|--------|----------|--------------------------|-----------|
| 1 | 21PS001 | WABLE SARTHAK PRAWIN | |
| 2 | 22PS301 | ATIWADKAR PARTH PANDIT | |
| 3 | 22PS302 | BHAGAT HARSHADA HARI | |
| 4 | 22PS303 | CHOBHE SHRIRAM NAMDEV | |
| 5 | 22PS304 | DESHMUKH SHREEJA GANESH | |
| 6 | 22PS305 | GADAKH ABHISHEK ASHOKRAO | |
| 7 | 22PS306 | HANDE VAISHNAVI GANESH | |
| 8 | 22PS307 | KADAM ADITYA UDAY | |
| 9 | 22PS308 | KHADKE UMESH BALASAHEB | |
| 10 | 22PS309 | NAVSUPE TEJAS POPAT | |
| 11 | 22PS310 | WAGH OMKAR SANTOSH | |
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Signature of Examiner

Head of Department

Head of Department
Production Engineering
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Department of Production Engineering

Assignment I (AY: 2022-23 Term II)

Class: SE Production

Course: Manufacturing Process-II

Date of Display:

Submission Date:

Mention Cognitive Level: Remember, Understand, Apply, Analyze, Evaluate, Create

| Qns No | Question | Connected CO | Cognitive Level |
|--------|--|--------------|-----------------|
| Q1 | Can you provide an overview of the theory of metal cutting and its significance in machining processes? | CO1 | Remember |
| Q2 | How does thread rolling work, and what are its key features in producing threaded components? | CO2 | Understand |
| Q3 | Explain the concept of FMS (Flexible Manufacturing System) and its significance in modern manufacturing? | CO3 | Understand |
| Q4 | What are the main advantages of using CNC machines and machining centers in manufacturing processes? | CO3 | Apply |



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KENNEDY ROAD, PUNE - 411 001.



Supervisor's Signature

Name Pavith Pandit Atiwadkar Roll No.: 22PS301

Subject MP-II Division: —

Examination Assignment I Day & Date: —

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total Marks |
|--------------|----|----|----|----|---|---|---|---|---|----|-------------|
| Marks | 06 | 06 | 06 | 06 | | | | | | | 24 |

Examiner Signature a

Q.1 Can you provide an overview of the theory of metal cutting and its significance in machine processes?

→

① In metal cutting theory, all operation performed with the wedge-shaped tool when a layer of metal is removed in the form of continuous or discontinuous chip can be conventionally divided into two general cases.

② Theory of Metal cutting has following factors

- Overview of machining technology
- Theory of chip formation
- Material removal rate
- Feed / Feed rate
- Depth of cut
- Cutting speed
- Type of chip in machining

Q.2 How does thread rolling work, and what are its key features in production of threaded components?

Thread rolling:-

- ① Thread rolling is a mechanical process where threads are cold formed when the part is squeezed between two thread dies on a thread rolling machine.
- ② Thread rolling provides for a stronger thread and no loss of material.
- ③ This process is different from other processes like metal cutting, grinding and chasing because it does not remove any metal to create the desired profile.
- ④ Instead, these hardened steel thread rolls move and mold ductile metal quickly and very precisely into desired thread form.

56

Q.3

→

55

Q.3 Explain the concept of FMS (Flexible Manufacturing System) and its significance in modern manufacturing

-
- ① A flexible manufacturing system is a production method that is designed to easily adapt to change in the type and quantity of product being manufactured.
 - ② Machines and computerized system can be configured to manufacture a variety of parts and handle changing level of production.
 - ③ The main benefit of a FMS is that it make production more efficient.
 - ④ Delay are reduced, as production doesn't have to be shut down to set up to different product.
 - ⑤ Drawbacks include higher up-front costs and the greater time required to design the system specification.
- 56

Q.4 What are the main advantages of using CNC machine and machining centre in manufacturing process?

→ The main advantages of CNC:-

- ① CNC machining services require no extensive skill
- ② Product can be replicated thousands of time.
- ③ Less labour is required to operate CNC machinery.
- ④ CNC Software make your production option versatile.
- ⑤ CNC machine fits the skills of modern workers
- ⑥ CNC uses oil base coolant that result in better quality.

06



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Department of Computer Engineering

Fourth Year Computer Engineering

Year 2022 - 23

Group/Project ID : 19

Team Members:

1. Priya Bhalchim
2. Akansha Salunke
3. Prathamesh Kadale
4. Shridhan Badve

Project Title : Stock Market Analyzing and prediction using machine learning techniques.

Project Guide : Prof. V.V.Navale




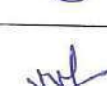
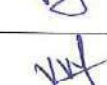
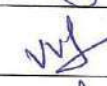
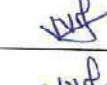
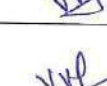


Area of the Project : Machine learning

Project Review (Semester I)

The group members are expected to present their work undertaken during the semester. Journey of development has to be rationally presented with thorough literature survey.

8.1 Project Review-I: Problem Statement, Motivation, objectives and Literature Review,

Student is expected to deliver presentation covering Problem Statement, Motivation, objectives and Literature Review.


| Sr. No. | Question | Date | Remark / Grade | Sign of Guide |
|---------|---|----------|----------------|---|
| 1) | Does the statement gives clear identification about what your project will accomplish? | 17/10/22 | Done |  |
| 2) | Is the statement short and concise? | 17/10/22 | Done |  |
| 3) | Can a person who is not familiar with the project understand scope of the project by reading the project problem statement? | 17/10/22 | Done |  |
| 4) | The project's objectives of study (what product, process, resource etc.) are being addressed? | 17/10/22 | Done |  |
| 5) | Is similar type of methodology / model used for existing work? | 17/10/22 | Done |  |
| 6) | Is the studied literature sufficient to decide scope of the project? | 17/10/22 | Done |  |
| 7) | Are the objectives set will help to achieve goal of the project? | 17/10/22 | Done |  |
| 8) | Does Research gap identified will lead to find motivation of project? | 17/10/22 | Done |  |
| 9) | Does your project contribute to our society by any means and will lead to find motivation? | 17/10/22 | Done |  |
| 10) | Are the objectives clearly and unambiguously listed? | 17/10/22 | Done. |  |

Remark and Suggestions:

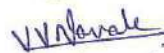
study more papers

Name and Sign of

Reviewers: 1.

S. V. Athavale 

2.


Vandana V. Navale

Project Review-II: Feasibility and Scope

Student is expected to deliver presentation covering Feasibility and Scope

| Sr. No. | Question | Date | Remark / Grade | Sign of Guide |
|---------|--|----------|----------------|---------------|
| 1) | Is the project's view point is understood? | 17/10/22 | Done | VVF |
| 2) | Is the project goal statement is in alignment with the sponsoring organization's business goal and mission? | 17/10/22 | Done | VVF |
| 3) | Who is the project's end user? | 17/10/22 | Done | VVF |
| 4) | What is the projected cost of producing a product? | 17/10/22 | Done | VVF |
| 5) | Is project achievable in specified (Time, Cost Budget)? | 17/10/22 | Done | VVF |
| 6) | Are the requirements within the scope of the project? | 17/10/22 | Done | VVF |
| 7) | Is the scope properly defined? | 17/10/22 | Done | VVF |
| 8) | Does the problem statement clearly define scope of the project? | 17/10/22 | Done | VVF |
| 9) | Do the project requirements fit into available software and hardware? | 17/10/22 | Done | VVF |
| 10) | Whether the milestones are stated completely and project timeline is given? | 17/10/22 | Done | VVF |
| 11) | Whether risks like technical risks, Operational risks, schedule risks, business risks are identified correctly or not? | 17/10/22 | Done | VVF |
| 12) | Whether Risk prioritization is done properly or not and any back up plan is there or not? | 17/10/22 | Done | VVF |

Remark and Suggestions:

All requirements check properly & modify architecture


Name and Sign of

Reviewers: 1. S.V. Athavale

2. Vandana V. Navale

Project Review-III: Requirement Analysis

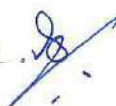
Student is expected to deliver presentation covering Requirement Analysis


| Sr. No. | Question | Date | Remark / Grade | Sign of Guide |
|---------|--|----------|----------------|--|
| 1) | Is information domain analysis complete, consistent and accurate? | 21/10/22 | Yes |  |
| 2) | Is problem statement categorized in identified area and targeted towards specific area there in? | 21/10/22 | Yes | |
| 3) | Is external and internal interfacing properly defined? | 24/10/22 | Yes | |
| 4) | Are requirement consistent with schedule, resources and budget? | 24/10/22 | Yes | |
| 5) | Are all requirements traceable to system level? | 24/10/22 | Yes | |
| 6) | What is needed to make the product? | 24/10/22 | Yes | |
| 7) | Is there a demand for the produce? | 24/10/22 | Yes | |
| 8) | Is identification of stakeholders is done properly? | 24/10/22 | Yes | |
| 9) | Whether all requirements are captured and documented in line with scope? | 24/10/22 | Yes | |
| 10) | Whether all type of analysis classes are identified or not? | 24/10/22 | Yes | |
| 11) | Whether the Acceptance criteria is decided are not? | 24/10/22 | Yes | |

Remark and Suggestions:

Gather more information of domain.

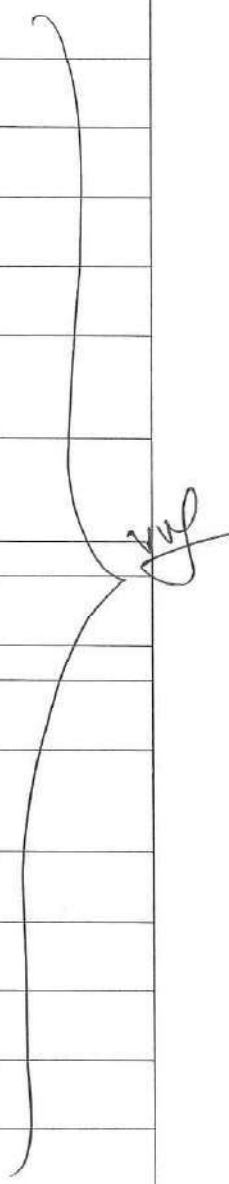
Name and Sign of

Reviewers: 1. S.V. Athavale 

2. Vandana.V. Navale 

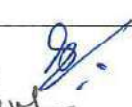
Project Review-IV: Design


Student is expected to deliver presentation covering Design

| Sr. No. | Question | Date | Remark / Grade | Sign of Guide |
|---------|--|----------|----------------|--|
| 1) | Are requirement reflected in the system architecture? | 10/11/22 | yes |  |
| 2) | Does the design support both project (product) and project goals? | 10/11/22 | yes | |
| 3) | Does the design address all the issues form the requirement? | 10/11/22 | yes | |
| 4) | Is effective modularity achieved and modules are functionally independent? | 10/11/22 | yes | |
| 5) | Are structural diagrams (class, Object, etc) are well defined? | 11/11/22 | yes | |
| 6) | Are all class associations clearly defined and understood?(Is it cleat which classes provide which services?) | 11/11/22 | yes | |
| 7) | Are the classes in the class diagram clear? (What they represent in the architecture design document?) | 11/11/22 | yes | |
| 8) | Is inheritance appropriately used? | 11/11/22 | yes | |
| 9) | Are the multiplicities in the use case diagram depicted in the class diagram? | 11/11/22 | yes | |
| 10) | Are all objects used in sequence diagram? | 11/11/22 | yes | |
| 11) | Are the symbols used in all diagrams corresponding to UML standards? | 11/11/22 | yes | |
| 12) | Are behavioral diagrams (use case, sequence, activity, etc.) well defined and understood? | 11/11/22 | yes | |
| 13) | Does each case have clearly defined actors and input/ output? | 11/11/22 | yes | |
| 14) | Does the sequence diagram matches with class diagram? | 11/11/22 | yes | |
| 15) | Is aggregation/ containment (used) clearly defined and understood? | 11/11/22 | yes | |
| 16) | Whether State charts are capturing system's dynamic behavior correctly or not? | 11/11/22 | yes | |
| 17) | Related to procedural thinking whether DFDs and CFDs along with transaction and transformation flow are done correctly or not? | 11/11/22 | yes | |

Remark and Suggestions: _____

Name and Sign of

Reviewers: 1. S.V. Athwale 

2. Vandana.V. Navale 

Internal Evaluation Sheet (Semester I)

| Sr. No. | Name(s) of the student in the project group | Problem Statement / Motivation / Objectives / Scope/ Feasibility Requirement (05) | Literature Survey (05) | Requirement Analysis (05), Modeling & Designing (10) | Planning & Prototyping (05) | Presentation & Question - Answer (10) | Partial Project Report (10) | Total (50) |
|---------|---|---|------------------------|--|-----------------------------|---------------------------------------|-----------------------------|------------|
| 1. | Priya, V. Bhadani | 05 | 05 | 08 | 04 | 09 | 10 | 46 |
| 2. | Akanksha, T. Salunke | 05 | 04 | 08 | 04 | 09 | 10 | 45 |
| 3. | Prathamesh Kadale | 05 | 04 | 07 | 04 | 08 | 10 | 43 |
| 4. | Shridhan Badve | 05 | 04 | 07 | 03 | 07 | 10 | 41 |

(Refer Rubrics)

Name and Signature of Evaluation Committee:

1. Prof. S. V. Athwale

2. Prof. Vandana, V. Navale

Examiners Feedback and Suggestions:

Signature of Guide
[Name of Guide]


Signature of Head
[Name of HoD]
Head of Department

Project Review: (Semester II)

The group members are expected to present their work undertaken during the semester. Journey of development has to be rationally presented.

Project Review-I: Modeling (Model Refinement and Algorithm development)

Student is expected to deliver presentation covering Modeling

| Sr. No. | Question | Date | Remark/ Grade | Sign of Guide |
|---------|---|----------|---------------|--|
| 1) | Which software Development Process model is used? (Water fall, Incremental, RAD) How?(? at this level?) | 22/9/22 | Yes |  |
| 2) | Do you clearly identify data objects, their attributes and relationships?(All constraints fro SRS are captured or not?) | 27/9/22 | Yes | |
| 3) | Have you clearly matched the objects with respective classes and their responsibilities? | 27/9/22 | Yes | |
| 4) | Have you analyzed the requirements and represented them into respective models? | 6/10/22 | Yes | |
| 5) | Can you differentiate between different system states and depict them in the form of state transition diagram? | 10/10/22 | Yes | |
| 6) | Does the mathematical model clearly imply design of the project? | 10/10/22 | Yes | |
| 7) | Does the mathematical model clearly states goal of project? | 10/10/22 | Yes | |
| 8) | Does the interface between the modules properly identified? | 18/10/22 | Yes | |
| 9) | Does any functional dependencies are identified and described? | 19/10/22 | Yes | |
| 10) | Which architectural model does your system supports? | 14/10/22 | Yes | |
| 11) | Whether Deployment diagram is inline with selected architecture? | 14/11/22 | Yes | |
| 12) | Whether all components are designed properly and represented in component diagram? | 14/11/22 | Yes | |
| 13) | Whether NP-completeness of algorithms is checked or not? | 14/11/22 | Yes | |

Remark and Suggestions:

Try to implement changes.


Name and Sign of

Reviewers: 1. S. V. Athwale

2. Vandana. V. Navale

Project Review-II: Coding / Implementation


Student is expected to deliver presentation covering Coding / Implementation


| Sr. No. | Question | Date | Remark/ Grade | Sign of Guide |
|---------|--|---------|------------------|--|
| 1) | Does the code completely and correctly implement the design? | 1/8/23 | Yes |  |
| 2) | Does the code comply with the coding standard? | 1/8/23 | Yes | |
| 3) | Is the code well structured, consistent in style, and consistently formatted? | 1/8/23 | Yes | |
| 4) | Are all functions in the design coded? | 6/8/23 | Yes | |
| 5) | Does the code make use of object oriented concepts? | 6/8/23 | Yes | |
| 6) | Does the code support granularity? | 10/8/23 | Yes | |
| 7) | Does the language used for coding is correctly chosen as per the project need? | 10/8/23 | Yes | |
| 8) | If any off the shelf components are used, Have you understood the functionalities of using it? | 10/8/23 | Yes | |
| 9) | Are all comments consistent with the code? | 16/8/23 | Yes | |
| 10) | Whether code optimization is done properly or not?(By using language features) | 16/8/23 | Yes | |

Remark and Suggestions:

Good presentation.


Name and Sign of

Reviewers: 1. S. Y. Aathwale 

2. Yondona. V. Navle 

Project Review-III: Validation and Testing


Student is expected to deliver presentation covering Validation and Testing


| Sr. No. | Question | Date | Remark/ Grade | Sign of Guide |
|---------|--|---------|------------------|--|
| 1) | Have you done alpha testing? | 16/3/23 | Yes |  |
| 2) | Have you done beta testing? | 16/3/23 | Yes | |
| 3) | Have you validated the requirements, design and code as per standard? | 16/3/23 | Yes | |
| 4) | Have you performed GUI testing of project? How? | 16/3/23 | Yes | |
| 5) | Does your system comply with basic usability norms? | 16/3/23 | Yes | |
| 6) | Have you tested the code using standard datasets available in your area of project? | 16/3/23 | Yes | |
| 7) | Have you tested the code in real time environment? | 16/3/23 | Yes | |
| 8) | After integration of all components whether total performance of system is checked or not? | 16/3/23 | Yes | |
| 9) | Whether repository of all components along with versions is documented or not? | 16/3/23 | Yes | |

Remark and Suggestions:

Good presentation & PPT

Name and Sign of

Reviewers: 1. S. V. Athavale 

2. Vandana. Y. Navale 

Internal Evaluation Sheet (Semester II)

| Sr. No. | Name(s) of the student in the project group | Modeling (10) | Coding and Implementation (40) | Testing (10) | Understanding, Individual Involvement / Contribution in the project (10) | Team Work (10) | Demonstration cum Presentation (10) | Documents & Report (10) | Total (100) |
|---------|---|---------------|--------------------------------|--------------|--|----------------|-------------------------------------|-------------------------|-------------|
| 1. | Priya. V. Bhattacharya | 08 | 30 | 06 | 04 | 08 | 06 | 08 | 70 |
| 2. | Akanksha T. Salunke | 08 | 32 | 07 | 05 | 08 | 06 | 08 | 74 |
| 3. | Prathmesh Kadam | 08 | 31 | 07 | 05 | 08 | 07 | 07 | 73 |
| 4. | Shridhan Badve | 08 | 30 | 06 | 06 | 08 | 06 | 08 | 72 |

(Refer Rubrics)

Name and Signature of Evaluation Committee:

1. Prof. S. V. Athawale

2. Prof. Y. V. Navale

Examiners Feedback and Suggestions:

Signature of Guide
[Name of Guide]

Signature of Head
[Name of HoD]
Head of Department

Rubrics

A. Idea Inception

| Grade (Grade Point) | Excellent (10-9) | Very Good (6-8) | Fair (3-5) | Poor (1-2) |
|---|------------------|-----------------|------------|------------|
| Parameter | | | | |
| Problem Definition and Scope of the Project | 08 | | | |
| Literature Survey | 08 | | | |
| Software Engineering Approach | | 08 | | |
| Requirement Analysis | 09 | | | |

B. Implementation

| Grade (Grade Point) | Excellent (10-9) | Very Good (6-8) | Fair (3-5) | Poor (1-2) |
|---|------------------|-----------------|------------|------------|
| Parameter | | | | |
| Implementation- Design, platform, coding, | 10 | | | |
| Optimization considerations(Memory, time, Resources, Costing) | 09 | | | |
| Thorough Testing of all modules | 08 | | | |
| Integration of modules and project as whole | 07 | | | |

C. Documents

| Grade (Grade Point) | Excellent (10-9) | Very Good (6-8) | Fair (3-5) | Poor (1-2) |
|---------------------|------------------|-----------------|------------|------------|
| Parameter | | | | |
| Synopsis | 08 | | | |
| Project Report | 08 | | | |
| Quick references | 08 | | | |
| System manual | 08 | | | |
| Installation Guide | 08 | | | |
| Work Book | 09 | | | |

D. Demonstration

| Grade (Grade Point) | Excellent (10-9) | Very Good (6-8) | Fair (3-5) | Poor (1-2) |
|---|---------------------|--------------------|---------------|---------------|
| Parameter | | | | |
| Project Presentation and Demonstration (User Interface, ease of use, usability) | 10 | — | — | — |
| Understanding individual capacity & involvement in the project | 09 | — | — | — |
| Team Work (Distribution of work, intra-team communication and togetherness) | 09 | — | — | — |
| Outcomes / Usability | 09 | — | — | — |

E. Contest Participation / Awards, Publications and IPR

| Grade (Grade Point) | Excellent (10-9) | Very Good (6-8) | Fair (3-5) | Poor (1-2) |
|--|---------------------|--------------------|---------------|---------------|
| Parameter | | | | |
| Participation in various contests | — | — | 05 | — |
| Appreciation and Awards | — | — | — | — |
| Publications | 00 | 07 | — | — |
| Copyright | — | — | — | — |
| Patent | — | — | — | — |
| Commercial value /product conversion of Work | — | 07 | — | — |

Bibliography

1. Roger S. Pressman, "Software Engineering: A Practitioner's Approach", 6th Edition McGraw-Hill, ISBN 978-0-07-337597-7.
2. Joseph Phillips, "IT Project Management", Tata McGraw-Hill 2003 Edition, ISBN 13: 978-0071700436
3. www.csc.villanova.edu/~tway/courses/csc4181/s2010/srs_template-1.doc
4. http://unipune.ac.in/Syllabi_PDF/revised-2015/engineering/BE-Computer-2012-course-27-8-15.pdf

| BE Project | |
|------------|---|
| Sr. No | List of students undertaking project work |
| 1 | Ameya Kulkarni |
| 2 | Maithili Balkawade |
| 3 | Rushikesh Kajale |
| 4 | Gauri Khapre |
| 5 | Shreya Waghmare |
| 6 | Shruti Surajbansi |
| 7 | Neelansh Bhambhani |
| 8 | Pratik Ingle |
| 9 | Tushar Mali |
| 10 | Akshay Vairagal |
| 11 | Rohit Patil |
| 12 | Kiran Ravsaheb Rupanawar |
| 13 | Samarth Nirali |
| 14 | Ritesh naik |
| 15 | Prasad Patil |
| 16 | Hitesh Suryawanshi |
| 17 | Sarvesh Anil Bodhe |
| 18 | Laxmi Chaudhari |
| 19 | Sharwari Maske |
| 20 | Chirag Shah |
| 21 | Aarushi Mahajan |
| 22 | Pratik Mohire |
| 23 | Videh Warade |
| 24 | Pooja Dhabade |
| 25 | Venkat Rajarwad |
| 26 | Hrutuja Jiwane |
| 27 | Tejas Vakare |
| 28 | Supriya Darade |
| 29 | Sanket Borse |
| 30 | Sidharth Lahamge |
| 31 | Sumit Ghodake |
| 32 | Susmita Bansode |
| 33 | Pranali Krishna |
| 34 | Ruchika Meshram |
| 35 | Shivam Patil |
| 36 | Rohan Sonawane |
| 37 | Aniket Kinkar |
| 38 | Kunal Rajendra More |
| 39 | Arjun Prakash Taur |
| 40 | Manjit Manish More |
| 41 | Limaye Vaishnav |
| 42 | Lokhande Sakshi |
| 43 | Pakhare Mangesh Balasaheb |
| 44 | Jagadale Neha Vijay |
| 45 | Chavan Manav |
| 46 | Kalyankar Abhishek |
| 47 | Kirwale Saourabh |



Head
 Department of Electrical Engineering
 AISSMS College of Engineering, Pune

| | |
|----|---------------------------|
| 48 | Ingle Girish |
| 49 | Prafull yadav |
| 50 | Prathamesh Sampgaonkar |
| 51 | Doke rushikesh sanjay |
| 52 | Soumit debbarma |
| 53 | Wabale aditya sharad |
| 54 | Harshwardhan Chavan |
| 55 | Ansarali Nadaf |
| 56 | Ankit GULUMKAR |
| 57 | Mahesh karhe |
| 58 | Swapnali Holmukhe |
| 59 | Nivedita Kulkarni |
| 60 | Ritika Patil |
| 61 | Sakshi Pattewar |
| 62 | Utkarsha Yuvraj Chavan |
| 63 | Nilesh Limbaji Ghuge |
| 64 | Mahammadsakib Raju Sayyad |
| 65 | Kedar Raghuvir Urane |
| 66 | Abhijeet Khulesh Shinde |
| 67 | Suraj Dattaprasad Zanwar |
| 68 | Sameer Ravindra Shinde |
| 69 | Yogita Bapurao Madane |
| 70 | Chandgude Shreeyash |

Head
Department of Electrical Engineering
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**Department of Electrical Engineering
PROJECT**

**CLASS -BE (Electrical)
SEM - I**

AY: 2022-23

Date: 02/09/2022

Allotment of Guides for B.E project

The following faculty members will "Guide" the students for B.E Project stage I and II (403145 and 403152) respectively for AY 2022-23, Sem I and II.

| Group No. | Roll No. | Name of Student | Name of the Guide (Faculty) |
|-----------|----------|--------------------------|-----------------------------|
| 1 | 19EL024 | Ameya Kulkarni | Prof. S R Lengade |
| | 19EL003 | Maithili Balkawade | |
| | 19EL019 | Rushikesh Kajale | |
| | 19EL021 | Gauri Khapre | |
| 2 | 19EL050 | Shreya Waghmare | Prof. R S Shinde |
| | 19EL051 | Shruti Surajbansi | |
| | 19EL038 | Neelansh Bhambhani | |
| | 19EL015 | Pratik Ingle | |
| 3 | 19EL028 | Tushar Mali | Prof. S Vadi |
| | 19EL057 | Akshay Vairagal | |
| | 19EL042 | Rohit Patil | |
| | 18EL040 | Kiran Ravsaheb Rupanawar | |
| 4 | 19EL039 | Samarth Nirali | Prof. S K Biradar |

| | | | |
|----|---------|---------------------|--------------------|
| | 19EL037 | Ritesh naik | |
| | 19EL041 | Prasad Patil | |
| | 19EL054 | Hitesh Suryawanshi | |
| 5 | 19EL006 | Sarvesh Anil Bodhe | Prof. V N Tarange |
| | 19EL007 | Laxmi Chaudhari | |
| | 19EL030 | Sharwari Maske | |
| | 20EL314 | Chirag Shah | |
| 6 | 19EL001 | Aarushi Mahajan | Prof. P Sankala |
| | 19EL032 | Pratik Mohire | |
| | 19EL061 | Videh Warade | |
| | 20EL304 | Pooja Dhabade | |
| 7 | 19EL048 | Venkat Rajarwad | Prof. V V Kulkarni |
| | 19EL016 | Hrutuja Jiwane | |
| | 19EL058 | Tejas Vakare | |
| | 19EL009 | Supriya Darade | |
| 8 | 17EL008 | Sanket Borse | Prof. S Vadi |
| | 18EL025 | Sidharth Lahamge | |
| | 19EL012 | Sumit Ghodake | |
| | 19EL004 | Susmita Bansode | |
| 9 | 19EL023 | Pranali Krishna | Prof. Manoj Kar |
| | 19EL031 | Ruchika Meshram | |
| | 19EL043 | Shivam Patil | |
| | 19EL052 | Rohan Sonawane | |
| 10 | 17EL054 | Pranjal Yede | Prof. A A Apte |
| | 19EL049 | Rithik Rajan | |
| | 19EL017 | Junaid Javaid Ganai | |
| | 19EL005 | Sarvesh Bhusari | |
| 11 | 18EL013 | Anushka Gaikwad | Prof. V V Kulkarni |
| | 19EL027 | Advait Mahadik | |
| | 19EL002 | Adarsh Vishwakarma | |


Head

| | | | |
|----|---------|---------------------------|-------------------|
| | 19EL029 | Pushkar Malpani | |
| 12 | 19EL044 | Viraj Patil | Prof. S R Lengade |
| | 19EL045 | Yash Patil | |
| | 19EL046 | Prafull yadav | |
| | 19EL047 | Prathamesh Sampgaonkar | |
| | 19EL047 | Prathamesh Sampgaonkar | |
| 13 | 19EL011 | Doke rushikesh sanjay | Prof. S K Biradar |
| | 19EL010 | Deshmukh om vinod | |
| | 19EL053 | Soumit debbarma | |
| | 19EL060 | Wabale aditya sharad | |
| 14 | 19EL008 | Harshwardhan Chavan | Prof. R S Shinde |
| | 19EL036 | Ansarali Nadaf | |
| | 19EL013 | Ankit GULUMKAR | |
| | 19EL020 | Mahesh karhe | |
| 15 | 20EL307 | Swapnali Holmukhe | Prof. A A Apte |
| | 20EL309 | Nivedita Kulkarni | |
| | 20EL311 | Ritika Patil | |
| | 20EL312 | Sakshi Pattewar | |
| 16 | 20EL303 | Utkarsha Yuvraj Chavan | Prof. V S Ponkshe |
| | 20EL306 | Nilesh Limbaji Ghuge | |
| | 20EL313 | Mahammadsakib Raju Sayyad | |
| | 20EL317 | Kedar Raghuvir Urane | |
| 17 | 20EL315 | Abhijeet Khulesh Shinde | Prof. S S Mujawar |
| | 20EL318 | Suraj Dattaprasad Zanwar | |
| | 20EL316 | Sameer Ravindra Shinde | |
| | 16EL026 | Yogita Bapurao Madane | |
| 18 | 20EL302 | Chandgude Shreeyash | Prof. S S Mujawar |
| | 20EL305 | Dhok Payal Doma | |
| | 20EL310 | Mali Pranali | |
| | 20EL301 | Bhosale Madhavi | |
| 19 | 19EL022 | Aniket Kinkar | Prof. L S Godse |

| | | | |
|----|---------|---------------------------|-------------------|
| | 19EL033 | Kunal Rajendra More | |
| | 19EL055 | Arjun Prakash Taur | |
| | 19EL034 | Manjit Manish More | |
| 20 | 19EL025 | Limaye Vaishnav | Prof. P Sankala |
| | 19EL026 | Lokhande Sakshi | |
| | 19EL040 | Pakhare Mangesh Balasaheb | |
| | 20EL308 | Jagadale Neha Vijay | |
| 21 | 18EL011 | Chavan Manav | Prof. V N Tarange |
| | 18EL020 | Kalyankar Abhishek | |
| | 18EL023 | Kirwale Saourabh | |
| | 19EL014 | Ingle Girish | |

Committee Members:

Prof. M H Dhend

Prof. SK Biradar

Prof. L S Godse



Project Co-ordinator



HOD

Head

**Department of Electrical Engineering
AISSMS College of Engineering, Pune**



**Department of Electrical Engineering
PROJECT**

**CLASS -BE (Electrical)
SEM - I**

AY: 2022-23

Date: 29/08/2022


Titles of the Project

| Gro up No. | Roll No. | Name of Student | Title of the Project |
|------------------|----------|--------------------------|--|
| 1 | 19EL024 | Ameya Kulkarni | Energy performance analysis of a commercial building |
| | 19EL003 | Maithili Balkawade | |
| | 19EL019 | Rushikesh Kajale | |
| | 19EL021 | Gauri Khapre | |
| 2 | 19EL050 | Shreya Waghmare | Automatic phase selector system for 3 phase supply |
| | 19EL051 | Shruti Surajbansi | |
| | 19EL038 | Neelansh Bhambhani | |
| | 19EL015 | Pratik Ingle | |
| 3 | 19EL028 | Tushar Mali | IoT based Face Mask Detection and Body Temperature |
| | 19EL057 | Akshay Vairagal | |
| | 19EL042 | Rohit Patil | |
| | 18EL040 | Kiran Ravsaheb Rupanawar | |
| 4 | 19EL039 | Samarth Nirali | Prototype of Adaptive Headlight System for cars |
| | 19EL037 | Ritesh naik | |
| | 19EL041 | Prasad Patil | |
| | 19EL054 | Hitesh Suryawanshi | |

| | | | |
|----|---------|---------------------|---|
| 5 | 19EL006 | Sarvesh Anil Bodhe | Mission vision based intelligent quality check of Soyabean |
| | 19EL007 | Laxmi Chaudhari | |
| | 19EL030 | Sharwari Maske | |
| | 20EL314 | Chirag Shah | |
| 6 | 19EL001 | Aarushi Mahajan | Multistage DC to AC variable inverter with 120% load capacity |
| | 19EL032 | Pratik Mohire | |
| | 19EL061 | Videh Warade | |
| | 20EL304 | Pooja Dhabade | |
| 7 | 19EL048 | Venkat Rajarwad | Maharastra State Online Load Display System |
| | 19EL016 | Hrutuja Jiwane | |
| | 19EL058 | Tejas Vakare | |
| | 19EL009 | Supriya Darade | |
| 8 | 17EL008 | Sanket Borse | Automatic Fire Detection and Extinguishing System |
| | 18EL025 | Sidharth Lahamge | |
| | 19EL012 | Sumit Ghodake | |
| | 19EL004 | Susmita Bansode | |
| 9 | 19EL023 | Pranali Krishna | Stability analysis of power system incorporating facts controller |
| | 19EL031 | Ruchika Meshram | |
| | 19EL043 | Shivam Patil | |
| | 19EL052 | Rohan Sonawane | |
| 10 | 17EL054 | Pranjal Yede | |
| | 19EL049 | Rithik Rajan | |
| | 19EL017 | Junaid Javaid Ganai | |
| | 19EL005 | Sarvesh Bhusari | |
| 11 | 18EL013 | Anushka Gaikwad | |
| | 19EL027 | Advait Mahadik | |
| | 19EL002 | Adarsh Vishwakarma | |
| | 19EL029 | Pushkar Malpani | |
| 12 | 19EL044 | Viraj Patil | Implementation of Servo Motor Based Motion Control in Case of Sun Tracking for Prototype Solar Panel System |
| | 19EL045 | Yash Patil | |

| | | | |
|----|---------|---------------------------|--|
| | 19EL046 | Prafull yadav | |
| | 19EL047 | Prathamesh Sampgaonkar | |
| 13 | 19EL011 | Doke rushikesh sanjay | DESIGN AND BUILDING A PROTOTYPE MODEL TO DEMONSTRATE UNDERWATER COMMUNICATION USING LI-FI TECHNOLOGY |
| | 19EL010 | Deshmukh om vinod | |
| | 19EL053 | Soumit debbarma | |
| | 19EL060 | Wabale aditya sharad | |
| 14 | 19EL008 | Harshwardhan Chavan | Third Eye For Blind |
| | 19EL036 | Ansarali Nadaf | |
| | 19EL013 | Ankit GULUMKAR | |
| | 19EL020 | Mahesh karhe | |
| 15 | 20EL307 | Swapnali Holmukhe | Multisatage variable DC to AC inverter with with VVVF drive with 120% overload capacity for goods carrier electric vehicle |
| | 20EL309 | Nivedita Kulkarni | |
| | 20EL311 | Ritika Patil | |
| | 20EL312 | Sakshi Pattewar | |
| 16 | 20EL303 | Utkarsha Yuvraj Chavan | Performance Improvement of Distribution Network by using DSTATCOM |
| | 20EL306 | Nilesh Limbaji Ghuge | |
| | 20EL313 | Mahammadsakib Raju Sayyad | |
| | 20EL317 | Kedar Raghuvir Urane | |
| 17 | 20EL315 | Abhijeet Khulesh Shinde | Motor Drive protection and data logging using IOT for electric goods carrier vehicle |
| | 20EL318 | Suraj Dattaprasad Zanwar | |
| | 20EL316 | Sameer Ravindra Shinde | |
| | 16EL026 | Yogita Bapurao Madane | |
| 18 | 20EL302 | Chandgude Shreeyash | Benchmarking of Switched Reluctance Motor with PMSM Motor. |
| | 20EL305 | Dhok Payal Doma | |
| | 20EL310 | Mali Pranali | |

| | | | |
|----|---------|---------------------------|--|
| | 20EL301 | Bhosale Madhavi | |
| 19 | 19EL022 | Aniket Kinkar | Implementation and validation of cvt in electric ATV |
| | 19EL033 | Kunal Rajendra More | |
| | 19EL055 | Arjun Prakash Taur | |
| | 19EL034 | Manjit Manish More | |
| 20 | 19EL025 | Limaye Vaishnav | Design of Electric Two Wheeler |
| | 19EL026 | Lokhande Sakshi | |
| | 19EL040 | Pakhare Mangesh Balasaheb | |
| | 20EL308 | Jagadale Neha Vijay | |
| 21 | 18EL011 | Chavan Manav | Smart phone operated multipurpose agricultural robot |
| | 18EL020 | Kalyankar Abhishek | |
| | 18EL023 | Kirwale Saourabh | |
| | 19EL014 | Ingle Girish | |


Project Co-ordinator


HOD

Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune



AISSMS

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Recognized by
Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University
and recognized 2(f) and 12(B) by UGC (Id.No. PU / PN/ Engg. / 093 (1992)
Accredited by NAAC with 'A+' Grade



Department of Electrical Engineering

B.E. (Electrical)

Project Record Book

Academic Year (2022 -2023)

Title of the Project

Smart Phone Operated Multi-Purpose Agricultural Robot

Name of the Students

Kirwale Saourabh Babasaheb (18EL023)

Kalyankar Abhishek Vitthalrao (18EL020)

Chavan Manav Santosh (18EL011)

Ingale Girish Sampatrao (19EL014)

Guide

Prof. V.N. Tarange

1


Head

**Department of Electrical Engineering
AISSMS College of Engineering, Pune**

Group No: 21

Title of Project: Smart Phone Operated Multi-Purpose Agricultural Robot

| Name of Student | Roll No. | Exam No. | Mobile No. | T.E. Result | Placement Status |
|-------------------------------|----------|------------|------------|-------------|------------------|
| Kirwale Saourabh Babasaheb | 18EL023 | T190212553 | 8070727272 | 7.54 | Not Placed |
| Kalyankar Abhishek Vitthalrao | 18EL020 | T190212549 | 7219474724 | 7.92 | Placed |
| Chavan Manav Santosh | 18EL011 | T190212513 | 7218195580 | 7.48 | Placed |
| Ingale Girish Sampatrao | 19EL014 | T190212524 | 7378715513 | 7.52 | Not Placed |

In-house/Sponsored:

Sponsoring Authority: BitMap Technologies Pvt. Ltd, Pune

Mr . Vinod Thete

Type of sponsorship: Technical Sponsorship

Internal Guide: Prof. V.N. Tarange

External Guide:


Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune

AISSMS COE
Department of Electrical Engineering
BE Project Calendar
Academic Year (2022 - 2023)

| Sr.No. | Activity | Time Slot |
|----------------|----------------------------------|----------------------------------|
| Term-I | | |
| 1 | Finalize Project Team | 2nd Week of July |
| 2 | Submission of Project Synopsis | August |
| 3 | First Review by a faculty group | 1 st week of October |
| 4 | First Term Oral Examination | 1 st week of December |
| Term-II | | |
| 5 | Second review by a faculty group | 1 st week of February |
| 6 | Project Exhibition | 2 nd week of April |
| 7 | Submission of Project Report | 3 rd week of April |
| 8 | Project Final Examination | 2 nd week of June |


Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune

Project Synopsis

Title of the Project:

Smart Phone Operated Multi-Purpose Agricultural Robot

Sponsorship: Bitmap Technology

Abstract: This robotic vehicle is an agricultural machine of a considerable power and great soil clearing capacity. This multipurpose system gives an advance method to sow, plow, water and cut the crops with minimum man power and labor making it an efficient vehicle. The machine will cultivate the farm by considering particular rows and specific column at fixed distance depending on crop. More- over the vehicle can be controlled through Bluetooth medium using an Android smart phone. The whole process calculation, processing, monitoring is designed with motors amp; components interfaced with micro controller. The primary goal in creating this robot was to simply make farming easier for farmers in the future. The fields of robotics and large-scale agriculture have seen several significant breakthroughs in the current situation. Both technologies are used in this essay.

Objective:

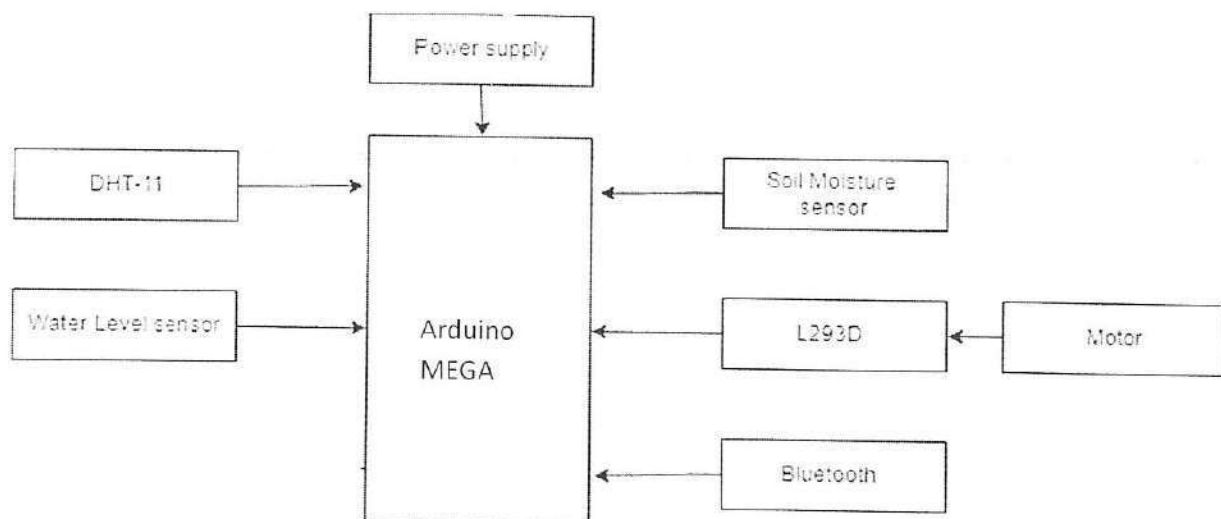
Objective of agriculture robots is to automate repetitive and labor-intensive task in farming operations. This can include activities such as planting seeds, harvesting crops and weeding fields by automating these task robots can increase efficiency, reduce task and reduce the burden on human labor

Specifications:

- 1) **Compatibility:-** The robot is compatible with both iOS and Android smartphones, allowing farmers to control and monitor the robot using a dedicated mobile application.

- 2) **Wireless Connectivity:** The robot should have built-in Wi-Fi or Bluetooth capabilities to establish a seamless connection with the smartphone. This enables real-time communication, data transfer, and remote control.
- 3) **Modular Design:** The robot should have a modular design that allows it to be easily configured and equipped with different attachments or tools for various agricultural tasks. These could include modules for planting, weeding, spraying, monitoring, or even small-scale harvesting
- 4) **Autonomous Navigation:** The robot is possessing advanced navigation and obstacle avoidance systems to move autonomously through the agricultural environment. It uses sensors like ultrasonic sensors to avoid obstacles.
- 5) **Sensing and Data Collection:** The robot is equipped with a variety of sensors, such as temperature and humidity sensors, or soil sensors. These sensors enable the robot to collect data about crops, soil conditions, and environmental factors to aid decision-making.

Block Diagram:



Requirement of Hardware/Software:

| Component | Specifications |
|----------------------|---|
| Arduino Mega | The 8-bit board with 54 digital pins, 16 analog inputs, and 4 serial ports |
| L293D | -Voltage Range: 4.5 V to 36 V. Thermal Shutdown |
| DHT-11 | Good for 20-80% humidity readings Good for 0-50 °C temperature readings |
| Bluetooth Sensor | Operating Voltage: 4V to 6V (Typically, +5V) Operating Current: 30mA Range: <100m |
| Soil Moisture Sensor | Operating Voltage: 3.3V to 5V DC Operating Current: 15mA |
| Ultrasonic Sensor | Power Supply: 3.3V – 5V. Operating Current: 8mA. Working Frequency: 40Hz. Ranging Distance: 3cm – 350cm/3.5m |

Reference Books/Papers/Internet sites

| Sr. No. | Title of Book/ Paper | Author | Publisher | Other Details if any |
|---------|---|--|--|----------------------|
| 1 | Smart Agriculture Using Internet of Things | Ibrahim Mat, Mohamed Rawidean Mohd Kassim, Ahmad Nizar Harun, Ismail Mat Yusof | IEEE | |
| 2 | Hybridization of Agriculture Vehicles Using a Ride-on Lawn Mower. | Prof. Dr. Herbert Olbrich, Prof. Dr. Rainer Uhler, Prof. Dr. Raoul Zöllner | IEEE | |
| 3 | Automated-Robotic Moisture In Agriculture Field | P.Senthil, I.S.Akila. | IEEE | |
| 4 | DTMF Based Intelligent Farming Robotic Vehicle | Amritanshu Srivastava, Shubham Vijay, Alka Negi | International Conference on Embedded Systems | |
| 5 | Smart Farming Using IOT | T.K. Rana, Amandeep1, Arshia | 978-1-5386- 3371- IEEE. | |
| 6 | Feeder Weeder for Autonomous Farming | Chethak, Deepika, Rohan D'Souza, Santhosh S | IEEE International Conference on Recent Trends in Electronics, Information Communication Technology. | |
| 7 | Intelligent Farming using Delta Robot | Shiva R, Vimal G, Lakshmi Joshitha K | 2020 2nd International Conference on Power, Energy, Control and Transmission Systems. | |

B.E.(Electrical) Project Progress Card

Title of the project: Smart Phone Operated Multi-Purpose Agricultural Robot

Name of the students:

1 Kirwale Saourabh Babasaheb
3 Chavan Manav Santosh

2 Kalyankar Abhishek Vitthalrao
4 Ingale Girish Sampatrao

Sponsor:

Guide (Internal) – Prof. V.N. Tarange

Contact No.:7020214011

Guide (External)-

Contact No.:

| Date | Students present on the day | Time | | Work Done / Remark | Signature of Int./Ext. Guide |
|------------|--|-------|-------|--|------------------------------|
| | | From | To | | |
| 20/08/2022 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb | 10:30 | 12:30 | Selection of Project Topic | |
| 27/08/2022 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb | 10:30 | 12:30 | Topic Selection Preparing ppt for topic selection | |
| 10/09/2022 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb | 10:30 | 12:30 | Discuss about the project flow and distribution of work load Making of Arduino simulation | |

| | | | | | |
|------------|--|-------|-------|---|--|
| 24/09/2022 | 1) Kalyankar Abhishek Vitthalrao 2) Kirwale Saourabh Babasaheb | 10:30 | 12:30 | using proteus | |
| 19/11/2022 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb | 10:30 | 12:30 | Preparing for Stage-I Presentation | |
| 11/02/2023 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Ingale Girish Sampatrao | 10:30 | 12:30 | To Find a solution on image processing | |
| 12/02/2023 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb 4) Ingale Girish Sampatrao | 10:30 | 12:30 | Preparing for project Presentation-III | |
| 18/02/2023 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb 4) Ingale Girish Sampatrao | 11:00 | 12:30 | We explored the new technology that is ChatGPT for various programs and logics. | |

| | | | | | |
|------------|--|-------|-------|---|--|
| 23/02/2023 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb 4) Ingale Girish Sampatrao | 11:30 | 02:00 | We contacted Mr. Vinod Thete Sir about the hardware and its availability and concluded about the setup. | |
| 26/02/2023 | 1) Chavan Manav Santosh 2) Kalyankar Abhishek Vitthalrao 3) Kirwale Saourabh Babasaheb 4) Ingale Girish Sampatrao | 10:30 | 12:30 | Started working with the further major parts such as obstacle detector (ultrasonic sensor) | |

* Saturdays and Sunday, We were working with sponsored company [BitMap Technologies Pvt. Ltd.]

Project Review I Mark list

Date: -

Title of the Project: - Smart Phone Operated Multi-Purpose Agricultural Robot

| Selection of Topic (10) | Work Carried out in 1 st semester (20) | Understanding (20) | Total (50) |
|----------------------------|---|-----------------------|---------------|
| | | | |

Remarks for Examiner /Guide: -

Name and Signature:-

Examiner 1:

Guide:

Examiner 2:

Project Review II Mark list

Date:-

Title of the Project: - Smart Phone Operated Multi-Purpose Agricultural Robot

| Work Carried out up till now (20) | Understanding and involvement of team members (20) | Results obtained up till now (10) | Total (50) |
|--------------------------------------|---|--------------------------------------|---------------|
| | | | |

Remarks of Examiner s/Guide: -

Remarks of Examiner s/Guide: -

Name andSignature:-

Examiner 1:

Guide:

Examiner 2:

Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune

Assessment Report:

A) Contributions:

a) Presented paper in Paper Presentation Competition : (Pl give details)

b) Participated in project Competition: (Pl give details)

c) Any other recognition:

Sir Biradar liked our essential project by deep in their heart.
Thank You.

Date: 24/02/2023

Sponsorship Letter

To Whom It May Concern:

Re: Official Sponsorship Approval Letter.

Bitmap Technology has to extend an offer of sponsorship for

Students Below :

- Mr. Manav Santosh Chavan
- Mr. Abhishek Vitthalrao Kalyankar
- Mr. Saourabh Babasaheb Kirwale
- Mr. Girish Sampatrao Ingale

A Student Of Engineering And Technology," College All India Shree Shivaji Memorial Society's College Of Engineering" Is Official Recipient Of Under The Academic Project At BITMAP Technology!

Project Name: " Smart Phone Operated Multi-purpose Agriculture Robot ".

Here at Bitmap Technology Pvt. Ltd. Is a Software Service-based company, we are dedicated to fostering new talent and we believe that students has what it takes to make a huge impact. In return we ask that Students display **BITMAP Technology** promotional signs and literature throughout.

The Approval Consists Of Total Expenditure Required For Completion Of The Project.

I look forward to hearing from you soon so that we can move forward with this wonderful opportunity for **BITMAP Technology** and students.

Yours sincerely,


Vinod Thete.



For BITMAP Technology,

BITMAP Technology

4th Floor of Shree Siddhivinayak Building, Above CCD, 1,
Narhe Pune-411041, Mob No:-9607181257


Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune



AISSMS
COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

| Sr No | Name of Student | Sign | Technical credibility (knowledge, understanding, etc) (5) | Usage of Modern Tools(5) | Hardware/software design & Analysis (10) | Oral presentation and Effective communication (10) | Demonstration of Project (10) | Overall Presented effectively as a team (10) | Total (50) |
|-------|-----------------|------|---|--------------------------|--|--|-------------------------------|--|------------|
| 1 | Nijay D. Amble | | 05 | 05 | 08 | 09 | 10 | 10 | 47 |
| 2 | Nignesh S. Zyen | | 05 | 05 | 08 | 09 | 10 | | 47 |
| 3 | Amol N. Rathod | | 04 | 04 | 08 | 09 | 10 | | 45 |
| 4 | Mayumi M. Detei | | 04 | 04 | 08 | 08 | 09 | | 43 |

Guide's Signature

Project Coordinator

Dr R.R. Itkarker

External Evaluator Name & Sign

Head
Department of Electronics & Telecommunication
AISSMS COE PUNE-411001.

Group no 8- (14)



AISSMS
COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

| Sr No | Name of Student | Sign | Technical credibility (knowledge, understanding, etc) (5) | Usage of Modern Tools(5) | Hardware/software design & Analysis (10) | Oral presentation and Effective communication (10) | Demonstration of Project (10) | Overall Presented effectively as a team (10) | Total (50) |
|-------|------------------|--------------------|---|--------------------------|--|--|-------------------------------|--|------------|
| 1 | Himalay Khachane | <i>[Signature]</i> | 4 | 5 | 6 | 7 | 8 | 9 | 38 |
| 2 | Minal Pandey | <i>[Signature]</i> | 4 | 5 | 6 | 6 | 7 | | 36 |
| 3 | Rutuja Rout | <i>[Signature]</i> | 4 | 5 | 6 | 7 | 8 | | 38 |
| 4 | Gonika Wadake | <i>[Signature]</i> | 4 | 5 | 6 | 6 | 7 | | 36 |

Guide's Signature

[Signature]

Project Coordinator

[Signature]

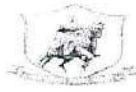
External Evaluator Name & Sign

[Signature]
P S T...

[Signature]
Head
HOD E & TC
Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.

Design + implementation of an efficient algorithm
in device-to-device (D2D) commⁿ in 5G
towards security.

Group no:- (15)



AISSMS
COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

| Sr No | Name of Student | Sign | Technical credibility (knowledge, understanding, etc) (5) | Usage of Modern Tools(5) | Hardware/software design & Analysis (10) | Oral presentation and Effective communication (10) | Demonstration of Project (10) | Overall Presented effectively as a team (10) | Total (50) |
|-------|-----------------|--------------------|---|--------------------------|--|--|-------------------------------|--|------------|
| 1 | SHRUTI PATEL | <i>[Signature]</i> | 5 | 4 | 4 | 10 | 10 | 10 | 48 |
| 2 | RUTAM KHATZ | <i>[Signature]</i> | 5 | 4 | 4 | 10 | 10 | | 48 |
| 3 | PRITAM MUNDE | <i>[Signature]</i> | 5 | 4 | 4 | 10 | 10 | | 48 |
| 4 | | | | | | | | | |

Guide's Signature

[Signature]
V V Deshmukh

Project Coordinator

[Signature]

[Signature]
Dr. V N Patil
External Evaluator Name & Sign

[Signature]
HOD E & TC
Head

Department of Electronics & Telecommunication
AISSMS COL PUNE-411001.

Group no :- (16)



AISSMS
COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

| Sr No | Name of Student | Sign | Technical credibility (knowledge, understanding, etc) (5) | Usage of Modern Tools(5) | Hardware/ software design & Analysis (10) | Oral presentation and Effective communication (10) | Demonstration of Project (10) | Overall Presented effectively as a team (10) | Total (50) |
|-------|------------------|---------------|---|--------------------------|---|--|-------------------------------|--|------------|
| 1 | Amisha Yeole | <i>Amisha</i> | 5 | 5 | 8 | 8 | 5 | 8 | 39 |
| 2 | Divya Sutar | <i>DS</i> | 5 | 5 | 8 | 8 | 5 | | 39 |
| 3 | Veushali Gaikwad | <i>VG</i> | 5 | 5 | 8 | 8 | 5 | | 39 |
| 4 | | | | | | | | | |

Guide's Signature

Project Coordinator

External Evaluator Name & Sign

Dr. D. P. Gaikwad

Head
HOD E & TC

Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.



AISSMS
COLLEGE OF ENGINEERING



Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra,
Affiliated to Savitribai Phule Pune University and Recognized A(0) and T(0) by UGC
(U.G.No. PU / PN / Engg. / 003 / 1992)
(Accredited by NAAC with Grade A+)

DEPARTMENT OF MECHANICAL ENGINEERING

BE Project Stage-I Review Evaluation Sheet (AY 2022/23 Term-I)

| | | | | | | |
|----------------|------------|-----------------------------------|--------------------------------|--|----------------------------|----|
| Group No. | All | Project Title: | Parametric Optimization in FDM | | | |
| Guide Name: | | Prof. N.N. Gotkhindikar | | | | |
| Group Members: | Student 1: | Deshpande · Aryan · Rahul | | | Total Marks (Out of 50) | 36 |
| | Student 2: | Deshmukh · Rajeshwari · Satishrao | | | | 36 |
| | Student 3: | Gholap · Vinaya · Arun | | | | 36 |
| | Student 4: | Bendale · Vaishnav · Mohan | | | | 36 |

| Review Panel Members: | | SIN + BYD | | | Date: 10/11/2022 | | | |
|---|--|---|---|--|------------------|-----------|-----------|-----------|
| Level of Achievement-Project Synopsis/ Proposal Evaluation (R1) | | | | | | | | |
| | Group Evaluation | Excellent (5-6) | Good (3-4) | Average (≤ 2) | Score (Max-18) | | | |
| | | | | | Student 1 | Student 2 | Student 3 | Student 4 |
| a | Study of the Existing Systems (PO-2) | Detailed and extensive explanation of the specifications and the limitations of the existing systems | Moderate study of the existing systems; collects some basic information | Minimal explanation of the specifications and the limitations of the existing systems; incomplete information | 4 | | | |
| b | Identification of Problem (PO-2) | Detailed and extensive explanation of the purpose and need of the project | Average explanation of the purpose and need of the project | Minimal explanation of the purpose and need of the project | 4 | | | |
| c | Formulation of Objectives and Methodology proposed (PO-3)(PO-11) | All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified | Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives | Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification | 4 | | | |
| | | | | | 12 | | | |

| Level of Achievement-Project Synopsis/ Proposal Evaluation (R2) | | | | | | | | |
|---|--|--|---|--|----------------|-----------|-----------|-----------|
| | Group Evaluation | Excellent (5-6) | Good (3-4) | Average (≤ 2) | Score (Max-18) | | | |
| | | | | | Student 1 | Student 2 | Student 3 | Student 4 |
| a | Design /Development of Methodology (PO-3) | Divison of problem into modules and good selection of Appropriate design methodology and properly | Divison of problem into modules and average selection of Design methodology not properly justified | Divison of problem into modules but inappropriate selection of Design methodology not defined properly | 4 | | | |
| b | Planning of Project Work and Team Structure (PO-11,PO-9) | Time frame properly specified and being followed Objectives achieved as per time frame Appropriate distribution of project work among team | Time frame properly specified and being followed Objectives achieved as per time frame Distribution of project work inappropriate | Time frame properly specified, but not being followed Objectives achieved as per time frame Distribution of project work inappropriate | 5 | | | |
| c | Demonstration and Presentation (PO-11) | Contents of presentations are appropriate and well arranged Proper eye contact with audience and clear voice with | Contents of presentations are appropriate but not well arranged Satisfactory demonstration, clear voice with good spoken language | Contents of presentations are appropriate but not well arranged Presentation not satisfactory and average demonstration | 4 | | | |
| | | | | | 13 | | | |

| Level of Achievement-Evaluation by Guide(R3) | | | | | | | | |
|--|--|---|--|--|----------------|-----------|-----------|-----------|
| | Individual Evaluation | Excellent (4-5) | Good (3) | Average (≤ 2) | Score (Max-14) | | | |
| | | | | | Student 1 | Student 2 | Student 3 | Student 4 |
| a | Team Work (PO-9) | Collaborates and communicates in a group situation and integrates the views of others/shown strong leadership qualities/functions effectively in diverse teams. | Exchanges some views but requires guidance to collaborate with others. | Makes little or no attempt to collaborate in a group situation | 4 | 4 | 4 | 4 |
| b | Technical Knowledge related to Project | Extensive knowledge related to the project | Fair knowledge related to the project | Lacks sufficient knowledge | 3 | 3 | 3 | 3 |
| c | Regularity/Professional ethics | Reports to the guide regularly and consistent in work | Not very regular but consistent in the work | Irregular in attendance and inconsistent in work | 4 | 4 | 4 | 4 |
| | | | | | 14 | 14 | 14 | 14 |

| | | |
|------------------|---|---|
| Remarks by Panel | 1 | Include adequate references & Reference must be mentioned in properly |
| | 2 | |
| | 3 | |

Project Coordinator

Head of Department
Mechanical Engineering



DEPARTMENT OF MECHANICAL ENGINEERING


BE Project Stage-II Review Evaluation Sheet (AY 2022/23 Term-II)

| | | | | | | |
|----------------|------------|-------------------------|--|-----|--|--|
| Group No: | A08 | Project Title: | Multipower Generation using solar energy, wind energy, pedal energy. | | | |
| Guide Name: | | Mrs A T Thombare | | | | |
| Group Members: | Student 1: | Kamble Girish Jagannath | Total Marks (Out of 200) | 186 | | |
| | Student 2: | Bamble Omkar Pandurang | | 185 | | |
| | Student 3: | Kokane Rahul murlihar | | 185 | | |
| | Student 4: | Alarrao P. Abhishek | | 186 | | |

| | | | | | | | | | |
|---|--|--|--|---|--|-----------------|-----------|-----------|-----------|
| Review Panel Members: | Dr. D. V. Dhande, Dr. S. J. Navate, Dr. B. D. Bachchhav, Mrs A T Thombare. | | | | | Date 15/03/2022 | | | |
| Level of Achievement-Second Semester Project Evaluation(R4) | | | | | | | | | |
| | Group Evaluation | Excellent (32-40) | Very Good (24-31) | Good (20-23) | Average(15-19) | Score (Max-120) | | | |
| | | | | | | Student 1 | Student 2 | Student 3 | Student 4 |
| a | Incorporation of suggestions with proper justification (PO-I) | Changes are made as per modifications suggested during mid term evaluation and new innovations added | Changes are made as per modifications suggested during mid term evaluation and good justification | Few changes are made as per modifications suggested during mid term evaluation | Suggestions during mid term evaluation are not incorporated | 38 | | | |
| b | Project Demonstration (PO-II) | All defined objectives are achieved, Each module working well and properly | All defined objectives are achieved, Each module working well and properly demonstrated. | Some of the defined objectives are achieved, Modules are working well in isolation and properly | Defined objectives are not achieved, Modules are not in proper working form that further leads to failure of | 37 | | | |
| c | Presentation (PO-10) | Contents of presentations are appropriate and well delivered, Proper eye contact with audience and clear voice with good spoken language | Contents of presentations are appropriate and well delivered, Clear voice with good spoken language but less eye contact with audience | Contents of presentations are not appropriate, Eye contact with few people and unclear voice | Contents of presentations are not appropriate and not well delivered, Poor delivery of presentation | 37 | | | |
| Total | | | | | | 112 | | | |

| Level of Achievement-Project Report Evaluation by Guide(R5) | | | | | | | | | |
|---|--|--|--|---|--|----------------|-----------|-----------|-----------|
| | Individual Evaluation | Excellent (16-20) | Very Good (14-15) | Good (10-13) | Average(8-9) | Score (Max-80) | | | |
| | | | | | | Student 1 | Student 2 | Student 3 | Student 4 |
| a | Quality of Project Report (PO-10) | Project report is according to the specified format, References and citations are appropriate and well mentioned, Plagiarism Checked | Project report is according to the specified format, References and citations are appropriate but not mentioned well | Project report is according to the specified format but some mistakes, In-sufficient references and citations | Project report not prepared according to the specified format, References and citations are not appropriate | 19 | 18 | 19 | 19 |
| b | Description of Concept Technical Details | Complete explanation of the key concepts, Strong description of the technical requirements of the project | Complete explanation of the key concepts, In-sufficient description of the technical requirements of the project | Complete explanation of the key concepts but little relevance to literature, In-sufficient description of the technical requirements of the project | Inappropriate explanation of the key concepts, Poor description of the technical requirements of the project | 18 | 18 | 18 | 18 |
| c | Conclusion and Discussion (PO-10) | Results are presented in very appropriate manner, Project work is well summarized and concluded, Future extensions in the project are well specified | Results are presented in good manner, Project work summary and conclusion not very appropriate, | Results presented are not much satisfactory, Project work summary and conclusion not very appropriate, Future extensions in the project are specified | Results are not presented properly, Project work is not summarized and concluded, Future extensions in the project are not specified | 19 | 18 | 18 | 18 |
| d | Awards/ Publications (PO-10) | Potential of Patent /Publication in reputed journal/Awards | Potential of Publication in International conference | Potential of Publication in national conference | Potential of Poster presentation | 18 | 19 | 18 | 19 |
| | | | | | | 74 | 73 | 73 | 74 |

| | | |
|------------------|---|----------------------------------|
| Remarks by Panel | 1 | Ergonomic aspects to be included |
| | 2 | Project is going with good pace |
| | 3 | |
| | 4 | |
| | 5 | |


 Dr. S.V. Chaturvedi
 Head of Department
 Mechanical Engineering
 AISSMS, COE, PUNE.


 Dr. S.J. Revale
 Project Coordinator



AISSMS

COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
(Accredited by NAAC with grade A+)



Department of Production Engineering Practical Attendance Sheet 2022-23 (TERM -I)

Class : BE (Group 4)

Time : _____

Subject: Mini Project

Name of Faculty : Y. K. Punde

| Sr. No. | Roll No | Name of Students | Date | | | | | | | | | | | | |
|---------|---------|---------------------------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| | | | 28/7 | 28/7 | 04/8 | 04/8 | 25/08 | 08/09 | 08/09 | 01/9 | 16/9 | 16/9 | 21/09 | 22/9 | 22/9 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Total |
| 1 | 20PS319 | PATIL DHANARAJ SUMANT | Depth | Depth | Depth | Depth | Depth | Depth | Depth | P | A | A | Depth | Depth | Depth |
| 2 | 20PS320 | PATIL DNYANESH MUKUNDA | AB | AB | Depth | Depth | Depth | Depth | Depth | Depth | A | A | Depth | Depth | Depth |
| 3 | 20PS321 | PATIL LOKESH RAJIV | AB | AD | Depth | Depth | Depth | Depth | Depth | Depth | A | A | Depth | Depth | Depth |
| 4 | 20PS322 | PAWAR GAURAV SUNIL | A | B | AD | - | - | - | - | - | A | A | - | AB | - |
| 5 | 20PS323 | PAWAR SHANKAR GANESH | Farp | Farp | Farp | Farp | Farp | Farp | Farp | Farp | Farp | Farp | Farp | Farp | Farp |
| 6 | 20PS324 | PAWAR SWEJAL RAJENDRA | Pun | Pun | Pun | Pun | Pun | Pun | Pun | Pun | Pun | Pun | Pun | Pun | Pun |
| 7 | 20PS325 | ZAREKAR PRANAV SANTOSH | AB | AB | AB | AB | B | B | B | A | P | P | B | B | B |
| 8 | 20PS326 | SAID SIDDHANT VISHWAS | AB | AB | Scal | Scal | AB | P | Scal | Scal | Scal | Scal | Scal | Scal | Scal |
| 9 | 20PS327 | SIDDIQUI ZAIN FARHATEJAJ | A | - | - | - | - | - | - | - | A | A | - | AB | - |
| 10 | 20PS328 | SONWANE GANESH ASHOK | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB |
| 11 | 20PS329 | THORAT VAIBHAV NANDKISHOR | Vaishv | Vaishv | Vaishv | Vaishv | Vaishv | A | A | A | Vaishv | Vaishv | Vaishv | Vaishv | Vaishv |
| 12 | 18PS026 | RITE AKASH SATISH | AB | AB | Akash | Akash | Akash | Akash | Akash | Akash | Akash | Akash | Akash | Akash | Akash |
| 13 | 17PS016 | G HARDE NOVIL PRAMOD | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB | AB |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | (09) | 09 | 09 | 09 | 08 | 08 | 09 | 09 | 09 |

HOD Signature

Head of Department
Production Engineering
AISSMS COE, PUNE I

Faculty Signature

All India Shivaji Memorial Society's
College of Engineering, Pune - 411 001
Practical Attendance Sheet 2022-23 (TERM -I)

Department: Production Engineering

Class : BE (Batch)

Subject: Mini Project

Time : 10:30-12:30 to 1 to 3:00

Name of Faculty : Y. K. Fule.

| Sr. No. | Roll No | Name of Students | Date | | | | | | | | | | | |
|---------|---------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|
| | | | 29/09 | 30/09 | 01/10 | 02/10 | 03/10 | 04/10 | 05/10 | 06/10 | 07/10 | 08/10 | 09/10 | 10/10 |
| 1 | 20PS319 | Patil Dhanraj Sumant | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | | |
| 2 | 20PS320 | Patil Dnyanesh Mukunda | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | DPatil | | |
| 3 | 20PS321 | Patil Lokesh Rajiv | | | | | | | | | | | | |
| 4 | 20PS322 | Pawar Gaurav Sunil | | | | | | | | | | | | |
| 5 | 20PS323 | Pawar Shankar Ganesh | | | | | | | | | | | | |
| 6 | 20PS324 | Pawar Swejal Rajendra | SPawar | SPawar | SPawar | SPawar | SPawar | SPawar | SPawar | SPawar | SPawar | SPawar | | |
| 7 | 20PS325 | Zarekar Pranav Santosh | ZZarekar | ZZarekar | ZZarekar | ZZarekar | ZZarekar | ZZarekar | ZZarekar | ZZarekar | ZZarekar | ZZarekar | | |
| 8 | 20PS326 | Said Siddhant Vishwas | SSaid | SSaid | SSaid | SSaid | SSaid | SSaid | SSaid | SSaid | SSaid | SSaid | | |
| 9 | 20PS327 | Siddiqui Zain Frahtejaj | | | | | | | | | | | | |
| 10 | 20PS328 | Sonawane Ganesh Ashok | ASonawane | ASonawane | ASonawane | ASonawane | ASonawane | ASonawane | ASonawane | ASonawane | ASonawane | ASonawane | | |
| 11 | 20PS329 | Thorat Vaibhav Nandkishor | VTorat | VTorat | VTorat | VTorat | VTorat | VTorat | VTorat | VTorat | VTorat | VTorat | | |
| 12 | 18PS026 | Rite Akash Satish | ARite | ARite | ARite | ARite | ARite | ARite | ARite | ARite | ARite | ARite | | |
| 13 | 17PS016 | Gharde Navil Pramod | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

HOD Signature
Head of Department
Production Engineering
AISSMB COE, PUNE 1

Faculty Signature



DEPARTMENT OF PRODUCTION ENGINEERING

A Y - 2022 - 23 , SEM I , 22 SEPT 2022

CLASS: BE PRODUCTION S/W

SUBJECT - MINI PROJECT - MID TERM REVIEW

22/9/22

| TITLE OF THE PROJECT : Data Analysis To overcome with Rope Vibration problem | | | | | | | |
|--|------------------------|------------------------|---------------------------|--------------------------|--------------------------|------------------|-------------------------|
| SR NO | NAME OF STUDENT | PROBLEM STATEMENT (10) | PROJECT INTRODUCTION (10) | METHODOLOGY ADOPTED (10) | PROGRESS OF PROJECT (10) | REFERENCE S (10) | TOTAL MARKS (OUT OF 50) |
| 1 | Lokesh Rajiv Patil | 07 | 06 | 05 | 06 | 05 | 29 |
| 2 | Ganesh Ashok Sonwane | 06 | 06 | 05 | 06 | 05 | 28 |
| 3 | Swejal Rajendra Pawar | 05 | 06 | 05 | 06 | 05 | 27 |
| 4 | Dnyanesh Mukunda Patil | 05 | 06 | 05 | 06 | 05 | 27 |
| 5 | | | | | | | |

| | |
|-------------------------|-----------------------------|
| SIGN : | SIGN : |
| GUIDE NAME : Y K Fumale | EXAMINER NAME : SN Chivande |

NOTE : PLEASE ATTACH PRESENTATION HARD COPY TO THIS SHEET.



DEPARTMENT OF PRODUCTION ENGINEERING

A Y - 2022 - 23 , SEM I , 22 SEPT 2022

CLASS: BE PRODUCTION S/W

SUBJECT - MINI PROJECT - MID TERM REVIEW

Date: 22/9/22

| TITLE OF THE PROJECT: Arduino Based Room Mapping Robot. | | | | | | | |
|---|----------------------|------------------------|---------------------------|--------------------------|--------------------------|-----------------|-------------------------|
| SR NO | NAME OF STUDENT | PROBLEM STATEMENT (10) | PROJECT INTRODUCTION (10) | METHODOLOGY ADOPTED (10) | PROGRESS OF PROJECT (10) | REFERENCES (10) | TOTAL MARKS (OUT OF 50) |
| 1 | Akash Satish Rite | 07 | 07 | 07 | 08 | 07 | 36 |
| 2 | Dhanraj Sumant Patil | 07 | 08 | 07 | 08 | 07 | 37 |
| 3 | Pranav Zarekar | 07 | 07 | 07 | 08 | 07 | 36 |
| 4 | Vaibhav Thorat. | 08 | 08 | 07 | 08 | 07 | 38 |
| 5 | Siddhant Said. | | | | | | |

| | |
|---------------------------|--------------------------------|
| SIGN : | SIGN : |
| GUIDE NAME : T. K. Funder | EXAMINER NAME : S. N. Chivande |

NOTE : PLEASE ATTACH PRESENTATION HARD COPY TO THIS SHEET.

Head of Department
Production Engineering
AISSMS COE, PUNE 1



DEPARTMENT OF PRODUCTION ENGINEERING

A Y - 2022 - 23 , SEM I - END TERM EVALUATION

CLASS: BE PRODUCTION S/W

SUBJECT : MINI PROJECT

| TITLE OF THE PROJECT: SMART STICK FOR BLIND PERSON. | | | | | | | | | | |
|---|-------------------------|-----------------|-----------------|-------------------------|---------------------------------|------------------------|---------------------------------|-------------------|------------------------|-------------|
| SR NO | NAME OF STUDENT | ATTENDANCE (10) | REGULARITY (10) | RELEVANCE OF TOPIC (10) | TIMELY ABSTRACT SUBMISSION (10) | LITERATURE REVIEW (10) | TECHNICAL CONTENT & SKILLS (10) | PRESENTATION (25) | QUESTION & ANSWER (15) | TOTAL (100) |
| 1 | PAWAR GAURAV SUNIL | 2 | 6 | 7 | 8 | 6 | 7 | 7 | 7 | 50 |
| 2 | SIDDQUI ZAIN FARHATEJAS | 0 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 23 |
| 3 | G HARDE NOYIL PRAMOD | 2 | 5 | 6 | 4 | 3 | 4 | 4 | 4 | 32 |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |

SIGN:

INT EXAMINER NAME: Ms Yogita Funde

SIGN:

EXT EXAMINER NAME: Dr. Shrikant Thorat

Head of Department
Production Engineering,
AISSMS COE, PUNE



DEPARTMENT OF PRODUCTION ENGINEERING

A Y - 2022 - 23 , SEM I - END TERM EVALUATION

CLASS: BE PRODUCTION S/W

SUBJECT : MINI PROJECT

| TITLE OF THE PROJECT : <u>Arduino based Room Mopping Robot</u> | | | | | | | | | | |
|--|---------------------------|-----------------|-----------------|-------------------------|---------------------------------|------------------------|---------------------------------|-------------------|------------------------|-------------|
| SR NO | NAME OF STUDENT | ATTENDANCE (10) | REGULARITY (10) | RELEVANCE OF TOPIC (10) | TIMELY ABSTRACT SUBMISSION (10) | LITERATURE REVIEW (10) | TECHNICAL CONTENT & SKILLS (10) | PRESENTATION (25) | QUESTION & ANSWER (15) | TOTAL (100) |
| 1 | PATIL DHANARAJ SUMANT | 10 | 10 | 9 | 10 | 9 | 8 | 8 | 9 | 73 |
| 2 | ZAREKAR PRANAV SANTOSH | 10 | 10 | 9 | 10 | 9 | 8 | 8 | 9 | 73 |
| 3 | SAJID SIDDHANT VISHWAS | 10 | 10 | 9 | 10 | 9 | 9 | 8 | 9 | 74 |
| 4 | THORAT VAJBHAV NANDKISHOR | 10 | 9 | 9 | 10 | 10 | 9 | 8 | 9 | 74 |
| 5 | RITE AKASH SATISH. | 10 | 10 | 9 | 10 | 9 | 8 | 8 | 9 | 73 |
| 6 | | | | | | | | | | |

SIGN : [Signature]

INT EXAMINER NAME : Yogita Fule

SIGN : [Signature]

EXT EXAMINER NAME : Dr. Shrikant Thorat

[Signature]
Production Engineering
AISSMS COE, PUNE I



DEPARTMENT OF PRODUCTION ENGINEERING

A Y - 2022 - 23 , SEM I - END TERM EVALUATION

CLASS: BE PRODUCTION S/W

SUBJECT : MINI PROJECT

| TITLE OF THE PROJECT : <i>Data analysis to overcome with rope vibration problem .</i> | | | | | | | | | | |
|---|------------------------|-----------------|-----------------|-------------------------|---------------------------------|------------------------|---------------------------------|-------------------|------------------------|-------------|
| SR NO | NAME OF STUDENT | ATTENDANCE (10) | REGULARITY (10) | RELEVANCE OF TOPIC (10) | TIMELY ABSTRACT SUBMISSION (10) | LITERATURE REVIEW (10) | TECHNICAL CONTENT & SKILLS (10) | PRESENTATION (25) | QUESTION & ANSWER (15) | TOTAL (100) |
| 1 | PATIL DNYANESH MUKUNDA | 9 | 9 | 9 | 10 | 9 | 9 | 9 | 9 | 73 |
| 2 | PATIL LOKESH RAJIV | 9 | 9 | 9 | 10 | 9 | 9 | 9 | 9 | 73 |
| 3 | PAVAR SWEJAL RAJENDRA | 9 | 9 | 9 | 10 | 9 | 9 | 9 | 9 | 73 |
| 4 | SONIWANE GANESH ASHOK. | 9 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 75 |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |

SIGN : *[Signature]*

INT EXAMINER NAME : *Ms. Yogita Funde*

SIGN : *[Signature]*

EXT EXAMINER NAME : *Dr. Shrikant Thorat*

All India Shri Shivaji Memorial Society's College of Engineering, Pune -1
Department of Civil Engineering
Practical Attendance sheet : Sem II – 2022-23

| Class: BE (Civil) | | | Division: B | Batch: H | Subject: Q S C T | | | | | | | Name of Faculty: Mr. C.R. Yeole | | | | | | | | | |
|-------------------|----------|------------------------------|----------------------|----------|-----------------------|--------|--------|--------|-------|--------|-----------|---------------------------------|-------------------------|--------|--------|--------|-------|--------|-----------|-------------|--|
| Sr. No. | Roll No. | Name of the Student | Marks till last week | 25 | Expt No. Introduction | | | | | | | 01 | Expt No. Tender + Contr | | | | | | | Total Marks | |
| | | | | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | | |
| 1 | 20CV327 | Rakshe Bhavana Ravi | - | ↑ | 01 | 01 | 02 | 01 | 01 | 06 | Ram | ↑ | 02 | 02 | 01 | 02 | 02 | 09 | Ram | 15 | |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | - | | 01 | 01 | 02 | 01 | 01 | 06 | Shubh | | 02 | 02 | 02 | 02 | 01 | 09 | Shubh | 15 | |
| 3 | 20CV334 | Tangature Sayali Sheshpal | - | | 01 | 01 | 02 | 01 | 01 | 06 | Sayali | | 02 | 02 | 01 | 01 | 01 | 07 | Sayali | 13 | |
| 4 | 20CV335 | Shalgar Kapil Rahul | - | | 01 | 01 | 02 | 01 | 01 | 06 | KPR | | 02 | 02 | 02 | 01 | 02 | 09 | KPR | 15 | |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | - | | ← | | | | | | | | ← | | | | | | | 00 | |
| 6 | 20CV325 | Mudekar Sanket Shashikant | - | | 01 | 01 | 02 | 00 | 01 | 05 | Sanket | | 02 | 02 | 01 | 01 | 02 | 08 | Sanket | 13 | |
| 7 | 20CV337 | Shinde Ritik Shashikant | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 8 | 20CV336 | Shelke Yash Pramod | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 9 | 20CV324 | Mhetre Swapnil Suresh | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 10 | 20CV326 | Petkar Sakshi Santosh | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 11 | 20CV330 | Salve Akash Pandharinath | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 12 | 20CV344 | Umate Prathmesh Laxman | - | | 01 | 01 | 02 | 00 | 01 | 05 | Prathmesh | | 01 | 02 | 02 | 02 | 01 | 08 | Prathmesh | 13 | |
| 13 | 20CV345 | Valkunde Sneha Rajendra | - | | ← | | | | | | | | ← | | | | | | | 00 | |
| 14 | 20CV333 | Sarode Ketaki Vijay | - | | 01 | 01 | 02 | 00 | 01 | 05 | Sarode | | 02 | 02 | 02 | 02 | 01 | 09 | Sarode | 14 | |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 16 | 20CV329 | Salunke Gayatri Madhav | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 17 | 20CV346 | Deshmukh Vishwajeet Ramesh | - | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | | 00 | |
| 18 | 20CV331 | Gore Sampat Sunil | - | | 01 | 01 | 02 | 01 | 01 | 06 | Sampat | | 02 | 01 | 02 | 02 | 01 | 08 | Sampat | 14 | |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | - | | 01 | 01 | 02 | 00 | 01 | 05 | Ritesh | | 01 | 02 | 01 | 02 | 01 | 07 | Ritesh | 12 | |
| 20 | 20CV343 | Kedar Suyog Sudhakar | - | | ← | | | | | | | | ← | | | | | | | 00 | |
| 21 | 20CV338 | Dukare Shruti Sharad | - | ↓ | 01 | 01 | 02 | 01 | 01 | 06 | SSD | ↓ | 02 | 01 | 02 | 01 | 02 | 08 | SSD | 14 | |

Mr. C.R. Yeole
 Faculty Name & Signature

HOD Signature

TA: Theory Attendance (2)
 O : Overall (2) (Sincerity, Initiative, etc)

PP : Practical Performance (2)

UT : Understanding of Topic(2)
 T : Total (10)

TS : Timely Submission (2)
 SS : Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COLLEGE OF ENGINEERING, PUNE-1.

All India Shri Shivaji Memorial Society's College of Engineering, Pune -1
Department of Civil Engineering
Practical Attendance sheet : Sem II - 2022-23

| Class: BE (Civil) | | | Division: B | Batch: H | Subject: Q S C T | Name of Faculty: Mr. C. R. Yeole | | | | | | | | | | | | | | |
|-------------------|----------|------------------------------|----------------------|--------------------|------------------|----------------------------------|--------|--------|-------|--------|-----------|-------|--------|----------------------|--------|--------|-------|--------|-------------|----|
| Sr. No. | Roll No. | Name of the Student | Marks till last week | Expt No. DSR + SSR | | | | | | | | | | Expt No. Practical I | | | | | Total Marks | |
| | | | | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | | SS |
| 1 | 20CV327 | Rakshe Bhavana Ravi | 15 | 1 | 02 | 01 | 01 | 01 | 01 | 06 | Ravne | 1 | 02 | 02 | 02 | 01 | 02 | 09 | Ravne | 30 |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | 15 | | 02 | 01 | 02 | 01 | 01 | 07 | Shilpa | | 02 | 02 | 01 | 02 | 02 | 09 | Shilpa | 31 |
| 3 | 20CV334 | Tangature Sayali Sheshpal | 13 | | 02 | 02 | 02 | 01 | 01 | 08 | Shilpa | | 02 | 02 | 02 | 02 | 01 | 09 | Shilpa | 30 |
| 4 | 20CV335 | Shalgar Kapil Rahul | 15 | | 02 | 02 | 02 | 02 | 01 | 09 | KR | | 02 | 02 | 02 | 02 | 01 | 09 | KR | 33 |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | 09 | < | | | | | | | > | | 01 | 02 | 02 | 02 | 02 | 09 | Shilpa | 09 |
| 6 | 20CV325 | Mudekar Shanket Shashikant | 13 | | 02 | 02 | 01 | 01 | 01 | 07 | Shilpa | | 02 | 02 | 02 | 01 | 02 | 09 | Shilpa | 29 |
| 7 | 20CV337 | Shinde Ritik Shashikant | 00 | < | | | | | | | > | | < | | | | | | > | 00 |
| 8 | 20CV336 | Shelke Yash Pramod | 00 | < 3 | | | | | | | > | 3 | 01 | 02 | 01 | 02 | 02 | 09 | Yash | 09 |
| 9 | 20CV324 | Mhetre Swapnil Suresh | 00 | 02/02 | 01 | 01 | 01 | 02 | 02 | 07 | Swapnil | 02/02 | 02 | 01 | 02 | 02 | 02 | 09 | Swapnil | 16 |
| 10 | 20CV326 | Petkar Sakshi Santosh | 00 | 02/02 | 01 | 02 | 01 | 02 | 02 | 08 | Shilpa | 02/02 | 02 | 01 | 02 | 02 | 02 | 09 | Shilpa | 17 |
| 11 | 20CV330 | Salve Akash Pandharinath | 00 | < 02/02 | | | | | | | > | | < | | | | | | > | 00 |
| 12 | 20CV344 | Umate Prathmesh Laxman | 13 | 08/02 | 02 | 02 | 01 | 01 | 00 | 06 | Prathmesh | 08/02 | 02 | 02 | 01 | 02 | 02 | 09 | Prathmesh | 28 |
| 13 | 20CV345 | Valkunde Sneha Rajendra | 00 | 08/02 | 01 | 02 | 02 | 01 | 01 | 07 | Shilpa | 08/02 | 02 | 02 | 02 | 01 | 02 | 09 | Shilpa | 16 |
| 14 | 20CV333 | Sarode Ketaki Vijay | 14 | | 02 | 01 | 02 | 02 | 02 | 09 | Ravne | 1 | 02 | 02 | 01 | 02 | 02 | 09 | Ravne | 32 |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | 00 | | 01 | 02 | 02 | 02 | 01 | 08 | Shilpa | | < | | | | | | > | 08 |
| 16 | 20CV329 | Salunke Gayatri Madhav | 00 | | 01 | 02 | 01 | 02 | 02 | 08 | Shilpa | | 02 | 01 | 02 | 02 | 02 | 09 | Shilpa | 17 |
| 17 | 20CV346 | Deshmukh Vishwajeet Ramesh | 00 | < | | | | | | | > | | 01 | 02 | 02 | 02 | 02 | 09 | Shilpa | 09 |
| 18 | 20CV331 | Gore Sampat Sunil | 14 | | 02 | 02 | 01 | 00 | 01 | 06 | Shilpa | | < | | | | | | > | 20 |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | 12 | | 02 | 02 | 01 | 01 | 01 | 07 | Shilpa | | 02 | 02 | 02 | 02 | 01 | 09 | Shilpa | 28 |
| 20 | 20CV343 | Kedar Suyog Sudhakar | 00 | < | | | | | | | > | | < | | | | | | > | 00 |
| 21 | 20CV338 | Dukare Shruti Sharad | 14 | > | 02 | 01 | 02 | 02 | 01 | 08 | Shilpa | > | < | | | | | | > | 22 |

Faculty Name & Signature: *C. R. Yeole*

HOD Signature: *[Signature]*

TA: Theory Attendance (2)
O: Overall (2) (Sincerity, Initiative, etc.)

PP: Practical Performance (2)

UT: Understanding of Topic (2)
T: Total (10)

TS: Timely Submission (2)
SS: Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

| Class: BE (Civil) | | | Division: B | Batch: H | Subject: QSCT | | | | | | | Name of Faculty: Mr. C.R. Teole | | | | | | | | | |
|-------------------|----------|-------------------------------|----------------------|---------------------------------|---------------|--------|--------|--------|-------|--------|--------------------------------|---------------------------------|--------|--------|--------|--------|-------|-------------|--------|----|--|
| Sr. No. | Roll No. | Name of the Student | Marks till last week | 15/02/23 Expt No. - Practical I | | | | | | | 08/03/23 Expt No. Practical II | | | | | | | Total Marks | | | |
| | | | | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | | T (10) | SS | |
| 1 | 20CV327 | Rakshe Bhavana Ravi | 30 | ↑ | 02 | 02 | 02 | 02 | 02 | 10 | → | ↑ | ← | | | | | | → | 40 | |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | 31 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 02 | 01 | 01 | 08 | → | 49 | |
| 3 | 20CV334 | Tangature Sayali Sheshpal | 30 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 01 | 02 | 02 | 02 | 09 | → | 49 | |
| 4 | 20CV335 | Shalgar Kapil Rahul | 33 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 01 | 02 | 02 | 09 | → | 52 | |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | 09 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 01 | 01 | 01 | 02 | 02 | 07 | → | 26 | |
| 6 | 20CV325 | Mudekar Sanket Shashikant | 29 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | ← | | | | | | → | 39 | |
| 7 | 20CV337 | Shinde Ritik Shashikant | 00 | | ← | | | | | | → | 08/03/23 | 01 | 01 | 02 | 02 | 02 | 08 | → | 08 | |
| 8 | 20CV336 | Shelke Yash Pramod | 09 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | ← | | | | | | → | 19 | |
| 9 | 20CV324 | Mhetre Swapnil Suresh | 16 | 15/02/23 | ← | | | | | | → | | ← | | | | | | → | 16 | |
| 10 | 20CV326 | Petkar Sakshi Santosh | 17 | 15/02/23 | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 01 | 02 | 02 | 09 | → | 36 | |
| 11 | 20CV330 | Salve Akash Pandharinath | 00 | 15/02/23 | ← | | | | | | → | 08/03/23 | ← | | | | | | → | 00 | |
| 12 | 20CV344 | Umate Prathmesh Laxman | 28 | 15/02/23 | 02 | 02 | 02 | 02 | 02 | 10 | → | | ← | | | | | | → | 38 | |
| 13 | 20CV345 | Valkunde Sneha Rajendra | 16 | 15/02/23 | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 02 | 02 | 01 | 09 | → | 35 | |
| 14 | 20CV333 | Sarode Ketaki Vijay | 32 | 15/02/23 | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 02 | 01 | 01 | 08 | → | 34 | |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | 08 | | ← | | | | | | → | | 01 | 01 | 01 | 01 | 02 | 06 | → | 14 | |
| 16 | 20CV329 | Salunke Gayatri Madhav | 17 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 01 | 01 | 02 | 08 | → | 35 | |
| 17 | 20CV346 | Deshmukh Vishwajeet Rameshwar | 09 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 01 | 02 | 02 | 09 | → | 28 | |
| 18 | 20CV331 | Gore Sampat Sunil | 20 | | ← | | | | | | → | | 01 | 01 | 01 | 02 | 02 | 07 | → | 27 | |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | 08 | | 02 | 02 | 02 | 02 | 02 | 10 | → | | 02 | 02 | 01 | 02 | 02 | 09 | → | 47 | |
| 20 | 20CV343 | Kedar Suyog Sudhakar | 00 | | | | | | | | → | | ← | | | | | | → | 00 | |
| 21 | 20CV338 | Dukare Shruti Sharad | 22 | ↓ | ← | | | | | | → | ↓ | 01 | 02 | 02 | 02 | 01 | 08 | → | 30 | |

Faculty Name & Signature

HOD Signature

TA: Theory Attendance (2)

PP : Practical Performance (2)

UT : Understanding of Topic(2)

TS : Timely Submission (2)

O : Overall (2) (Sincerity, Initiative, etc.)

T : Total (10)

SS : Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

All India Shri Shivaji Memorial Society's College of Engineering, Pune -1
Department of Civil Engineering
Practical Attendance sheet : Sem II - 2022-23

| Class: BE (Civil) | | | | Division: B | | Batch: H | | Subject: QSCT | | | | Name of Faculty: Mr. C.R. Yeole | | | | | | | | | |
|-------------------|----------|-------------------------------|----------------------|------------------------|--------|----------|--------|---------------|-------|--------|----|---------------------------------|--------|--------|--------|--------|-------|--------|----|-------------|--|
| Sr. No. | Roll No. | Name of the Student | Marks till last week | Expt No. Practical III | | | | | | | | Expt No. Practical IV | | | | | | | | Total Marks | |
| | | | | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | | |
| 1 | 20CV327 | Rakshe Bhavana Ravi | 40 | ↑ | 02 | 01 | 02 | 02 | 02 | 09 | 02 | ↑ | 02 | 02 | 02 | 02 | 01 | 09 | 02 | 58 | |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | 49 | | 02 | 02 | 01 | 02 | 02 | 09 | 02 | | 02 | 02 | 02 | 02 | 01 | 09 | 02 | 57 | |
| 3 | 20CV334 | Tangature Sayali Sheshpal | 49 | | 02 | 02 | 02 | 01 | 02 | 09 | 02 | ← | | | | | | | → | 58 | |
| 4 | 20CV335 | Shalgar Kapil Rahul | 52 | | 02 | 02 | 02 | 02 | 01 | 09 | 02 | | 02 | 02 | 02 | 01 | 02 | 09 | 02 | 70 | |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | 26 | | 02 | 02 | 02 | 01 | 02 | 09 | 02 | | 02 | 02 | 02 | 01 | 01 | 08 | 02 | 43 | |
| 6 | 20CV325 | Mudekar Sanket Shashikant | 39 | | 02 | 01 | 01 | 01 | 02 | 07 | 02 | | 02 | 01 | 02 | 02 | 02 | 09 | 02 | 55 | |
| 7 | 20CV337 | Shinde Ritik Shashikant | 08 | | 02 | 02 | 01 | 01 | 01 | 07 | 02 | | 02 | 02 | 01 | 02 | 02 | 09 | 02 | 24 | |
| 8 | 20CV336 | Shelke Yash Pramod | 19 | | 02 | 02 | 01 | 02 | 02 | 09 | 02 | | 02 | 02 | 02 | 01 | 01 | 08 | 02 | 36 | |
| 9 | 20CV324 | Mhetre Swapnil Suresh | 16 | 15/03/23 | ← | | | | | | → | 15/03/23 | ← | | | | | | → | 16 | |
| 10 | 20CV326 | Petkar Sakshi Santosh | 36 | 15/03/23 | 02 | 02 | 01 | 01 | 01 | 07 | 02 | 15/03/23 | 02 | 02 | 02 | 02 | 01 | 09 | 02 | 52 | |
| 11 | 20CV330 | Salve Akash Pandharinath | 00 | 15/03/23 | 02 | 02 | 01 | 02 | 02 | 09 | 02 | 15/03/23 | 02 | 02 | 01 | 01 | 02 | 08 | 02 | 17 | |
| 12 | 20CV344 | Umate Prathmesh Laxman | 38 | 15/03/23 | 02 | 02 | 02 | 01 | 02 | 09 | 02 | 15/03/23 | ← | | | | | | → | 47 | |
| 13 | 20CV345 | Valkunde Sneha Rajendra | 34 | 15/03/23 | 02 | 02 | 02 | 02 | 01 | 09 | 02 | 15/03/23 | 02 | 01 | 01 | 02 | 02 | 08 | 02 | 51 | |
| 14 | 20CV333 | Sarode Ketaki Vijay | 35 | | 02 | 02 | 02 | 01 | 02 | 09 | 02 | | 02 | 01 | 02 | 02 | 01 | 08 | 02 | 52 | |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | 14 | | 02 | 02 | 01 | 01 | 01 | 07 | 02 | | 02 | 02 | 01 | 01 | 02 | 08 | 02 | 31 | |
| 16 | 20CV329 | Salunke Gayatri Madhav | 35 | | 02 | 02 | 02 | 02 | 01 | 09 | 02 | | 02 | 02 | 01 | 02 | 02 | 09 | 02 | 53 | |
| 17 | 20CV346 | Deshmukh Vishwajeet Rameshwar | 28 | | 02 | 02 | 02 | 01 | 02 | 09 | 02 | | 02 | 02 | 02 | 01 | 02 | 09 | 02 | 46 | |
| 18 | 20CV331 | Gore Sampat Sunil | 27 | | 02 | 02 | 01 | 02 | 02 | 09 | 02 | | 02 | 01 | 02 | 02 | 02 | 09 | 02 | 45 | |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | 47 | | 02 | 01 | 02 | 02 | 02 | 09 | 02 | | 02 | 02 | 01 | 02 | 02 | 09 | 02 | 55 | |
| 20 | 20CV343 | Kedar Suyog Sudhakar | 00 | | ← | | | | | | → | | ← | | | | | | → | 00 | |
| 21 | 20CV338 | Dukare Shruti Sharad | 30 | 15/03/23 | 02 | 01 | 02 | 02 | 02 | 09 | 02 | 15/03/23 | 02 | 01 | 01 | 02 | 02 | 08 | 02 | 47 | |

Faculty Name & Signature

HOD Signature

TA : Theory Attendance (2)

PP : Practical Performance (2)

UT : Understanding of Topic(2)

TS : Timely Submission (2)

O : Overall (2) (Sincerity, Initiative, etc.)

T : Total (10)

SS : Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS'S COLLEGE PUNE-1

All India Shri Shivaji Memorial Society's College of Engineering, Pune -1
Department of Civil Engineering
Practical Attendance sheet : Sem II - 2022-23

| Class: BE (Civil) | | | Division: B | Batch: H | Subject: QSCT | Name of Faculty: Mr. C.R. Yeole | | | | | | | | | | | | | | | | |
|-------------------|----------|-------------------------------|----------------------|---------------------------------|---------------|---------------------------------|--------|--------|-------|--------|-------|------|----------------------------------|--------|--------|--------|-------|--------|-------|--|----|-------------|
| Sr. No. | Roll No. | Name of the Student | Marks till last week | 12/04/2023 Expt No. Practical V | | | | | | | | | 19/04/2023 Expt No. Practical VI | | | | | | | | | Total Marks |
| | | | | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | | | |
| 1 | 20CV327 | Rakshe Bhavana Ravi | 58 | ↑ | ← | | | | | | | → | ↑ | ← | | | | | | | → | 58 |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | 57 | | 02 | 02 | 01 | 02 | 02 | 09 | Prate | | 02 | 02 | 01 | 02 | 02 | 09 | Prate | | 75 | |
| 3 | 20CV334 | Tangature Sayali Sheshpal | 58 | | 02 | 02 | 02 | 01 | 02 | 09 | Prate | | 02 | 02 | 02 | 01 | 02 | 09 | Prate | | 76 | |
| 4 | 20CV335 | Shalgar Kapil Rahul | 70 | | 02 | 02 | 01 | 02 | 01 | 08 | KP | | 02 | 02 | 02 | 02 | 01 | 09 | KP | | 87 | |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | 43 | | 02 | 01 | 02 | 02 | 02 | 09 | Prate | M | 02 | 02 | 01 | 02 | 02 | 09 | Prate | | 61 | |
| 6 | 20CV325 | Mudekar Sanket Shashikant | 55 | | 02 | 02 | 01 | 01 | 02 | 08 | Prate | d | 02 | 02 | 02 | 01 | 02 | 09 | Prate | | 72 | |
| 7 | 20CV337 | Shinde Ritik Shashikant | 24 | | 02 | 01 | 02 | 02 | 02 | 09 | Prate | 0 | 02 | 02 | 02 | 02 | 01 | 09 | Prate | | 42 | |
| 8 | 20CV336 | Shelke Yash Pramod | 36 | 3 | 02 | 02 | 01 | 02 | 02 | 09 | Prate | d | 02 | 02 | 01 | 02 | 02 | 09 | Prate | | 54 | |
| 9 | 20CV324 | Mhetre Swapnil Suresh | 16 | 2 | ← | | | | | | | → | 1 | ← | | | | | | | → | 16 |
| 10 | 20CV326 | Petkar Sakshi Santosh | 52 | 20 | 02 | 02 | 01 | 01 | 02 | 08 | Prate | 5 | 02 | 02 | 01 | 02 | 02 | 09 | Prate | | 69 | |
| 11 | 20CV330 | Salve Akash Pandharinath | 17 | 120 | 02 | 02 | 02 | 01 | 02 | 09 | Prate | 0 | 02 | 02 | 02 | 02 | 01 | 09 | Prate | | 35 | |
| 12 | 20CV344 | Umate Prathmesh Laxman | 47 | 4 | ← | | | | | | | → | 1 | ← | | | | | | | → | 47 |
| 13 | 20CV345 | Valkunde Sneha Rajendra | 51 | 10 | 02 | 02 | 02 | 01 | 02 | 09 | Prate | 9 | 02 | 01 | 02 | 02 | 02 | 09 | Prate | | 69 | |
| 14 | 20CV333 | Sarode Ketaki Vijay | 52 | 2 | 02 | 02 | 02 | 01 | 01 | 08 | Prate | - | 02 | 02 | 02 | 01 | 02 | 09 | Prate | | 69 | |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | 31 | - | 02 | 02 | 02 | 01 | 02 | 09 | Prate | | 02 | 02 | 02 | 02 | 01 | 09 | Prate | | 49 | |
| 16 | 20CV329 | Salunke Gayatri Madhav | 53 | | 02 | 01 | 01 | 02 | 01 | 07 | Prate | | 02 | 01 | 02 | 02 | 02 | 09 | Prate | | 59 | |
| 17 | 20CV346 | Deshmukh Vishwajeet Rameshwar | 46 | | 02 | 02 | 01 | 01 | 02 | 08 | Prate | | 02 | 02 | 02 | 02 | 01 | 09 | Prate | | 63 | |
| 18 | 20CV331 | Gore Sampat Sunil | 45 | | | | | | | | | | | | | | | | | | | 45 |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | 65 | | | | | | | | | | | | | | | | | | | 65 |
| 20 | 20CV343 | Kedar Suyog Sudhakar | 00 | | | | | | | | | | | | | | | | | | | 00 |
| 21 | 20CV338 | Dukare Shruti Sharad | 47 | ✓ | 02 | 02 | 01 | 02 | 02 | 09 | Prate | ✓ | 02 | 01 | 02 | 02 | 02 | 09 | Prate | | 65 | |

C.R. Teole
 Faculty Name & Signature

C.R. Teole
 HOD Signature

TA: Theory Attendance (2)

O : Overall (2) (Sincerity, Initiative, etc.)

PP : Practical Performance (2)

UT : Understanding of Topic (2)

T : Total (10)

TS : Timely Submission (2)

SS : Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.

All India Shri Shivaji Memorial Society's College of Engineering, Pune -1
Department of Civil Engineering
Practical Attendance sheet : Sem II - 2022-23

| Class: BE (Civil) | | | | Division: B | Batch: H | Subject: Q SCT | | | | | | | Name of Faculty: Mr. C.R. Tesle | | | | | | | Total Marks |
|-------------------|----------|------------------------------|----------------------|-------------|----------|----------------|--------|--------|-------|--------|----|------|---------------------------------|--------|--------|--------|-------|--------|-----|-------------|
| Sr. No. | Roll No. | Name of the Student | Marks till last week | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | |
| 1 | 20CV327 | Rakshe Bhavana Ravi | 58 | 25/04/23 | ← | | | | | | → | ← | | | | | | | → | 58 |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | 75 | | 02 | 02 | 02 | 01 | 01 | 08 | P | 02 | 02 | 02 | 02 | 02 | 02 | 10 | P | 93 |
| 3 | 20CV334 | Tangature Sayali Sheshpal | 76 | | 02 | 01 | 01 | 02 | 02 | 08 | P | 02 | 02 | 02 | 02 | 01 | 09 | P | 93 | |
| 4 | 20CV335 | Shalgar Kapil Rahul | 87 | | ← | | | | | | P | 02 | 02 | 02 | 02 | 02 | 10 | P | 105 | |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | 61 | | 02 | 02 | 01 | 01 | 02 | 08 | P | 02 | 02 | 02 | 02 | 01 | 09 | P | 78 | |
| 6 | 20CV325 | Mudekar Sanket Shashikant | 72 | | 02 | 02 | 01 | 01 | 02 | 08 | P | 02 | 02 | 02 | 01 | 02 | 09 | P | 89 | |
| 7 | 20CV337 | Shinde Ritik Shashikant | 42 | | 02 | 02 | 01 | 01 | 02 | 08 | P | 02 | 02 | 01 | 02 | 02 | 09 | P | 59 | |
| 8 | 20CV336 | Shelke Yash Pramod | 54 | 25/04/23 | ← | | | | | | P | ← | | | | | | | → | 54 |
| 9 | 20CV324 | Mhetre Swapnil Suresh | 16 | 25/04/23 | ← | | | | | | P | ← | | | | | | | → | 16 |
| 10 | 20CV326 | Petkar Sakshi Santosh | 69 | 25/04/23 | ← | | | | | | P | 02 | 02 | 02 | 01 | 02 | 09 | P | 87 | |
| 11 | 20CV330 | Salve Akash Pandharinath | 35 | 25/04/23 | ← | | | | | | P | 02 | 02 | 01 | 02 | 02 | 09 | P | 53 | |
| 12 | 20CV344 | Umate Prathmesh Laxman | 47 | 25/04/23 | 02 | 01 | 02 | 01 | 02 | 08 | P | ← | | | | | | | → | 55 |
| 13 | 20CV345 | Valkunde Sneha Rajendra | 69 | 25/04/23 | 02 | 01 | 02 | 02 | 01 | 08 | P | 02 | 02 | 01 | 02 | 02 | 09 | P | 86 | |
| 14 | 20CV333 | Sarode Ketaki Vijay | 69 | 25/04/23 | 02 | 01 | 02 | 01 | 02 | 08 | P | 02 | 01 | 02 | 02 | 02 | 09 | P | 86 | |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | 49 | | 02 | 02 | 01 | 02 | 01 | 08 | P | 02 | 02 | 02 | 01 | 02 | 09 | P | 68 | |
| 16 | 20CV329 | Salunke Gayatri Madhav | 69 | | 02 | 02 | 01 | 01 | 02 | 08 | P | ← | | | | | | | → | 77 |
| 17 | 20CV346 | Deshmukh Vishwajeet Ramesh | 63 | | 02 | 02 | 01 | 01 | 02 | 08 | P | 02 | 02 | 01 | 02 | 02 | 09 | P | 80 | |
| 18 | 20CV331 | Gore Sampat Sunil | 45 | | 02 | 01 | 02 | 01 | 02 | 08 | P | ← | | | | | | | → | 53 |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | 65 | | 02 | 02 | 01 | 02 | 01 | 08 | P | 02 | 02 | 02 | 02 | 02 | 10 | P | 83 | |
| 20 | 20CV343 | Kedar Suyog Sudhakar | 00 | | ← | | | | | | * | | | | | | | | → | 00 |
| 21 | 20CV338 | Dukare Shruti Sharad | 65 | 25/04/23 | 02 | 01 | 02 | 01 | 02 | 08 | P | ← | | | | | | | → | 73 |

Faculty Name & Signature: C.R. Teale

HOD Signature

TA: Theory Attendance (2)

PP: Practical Performance (2)

UT: Understanding of Topic (2)

TS: Timely Submission (2)

O: Overall (2) (Sincerity, Initiative, etc.)

T: Total (10)

SS: Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE PUNE 1

All India Shri Shivaji Memorial Society's College of Engineering, Pune -1
Department of Civil Engineering
Practical Attendance sheet : Sem II - 2022-23

Class: BE (Civil)

Division: B

Batch: H

Subject: GSCET

Name of Faculty: Mr. C. R. Yeole

| Sr. No. | Roll No. | Name of the Student | Marks till last week | Expt No. Assignments | | | | | | | | | | Submission Expt No. | | | | | | | | Total Marks |
|---------|----------|---------------------------------|----------------------|----------------------|--------|--------|--------|--------|-------|--------|-----|------|--------|---------------------|--------|--------|-------|--------|----|---|-----|-------------|
| | | | | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | Date | TA (2) | PP (2) | UT (2) | TS (2) | O (2) | T (10) | SS | | | |
| 1 | 20CV327 | Rakshe Bhavana Ravi | 58 | ↑ | ← | | | | | | | → | ↑ | 02 | 02 | 02 | 02 | 02 | 10 | P | 68 | |
| 2 | 20CV339 | Purandare Shubhankar Saurabh | 93 | | ← | | | | | | | → | | 02 | 02 | 02 | 02 | 02 | 10 | P | 103 | |
| 3 | 20CV334 | Tangature Sayali Sheshpal | 93 | | 02 | 02 | 02 | 02 | 02 | 10 | Sub | | | 02 | 02 | 02 | 02 | 02 | 10 | P | 113 | |
| 4 | 20CV335 | Shalgar Kapil Rahul | 105 | | 02 | 02 | 02 | 02 | 02 | 10 | KD | | | 02 | 02 | 02 | 02 | 02 | 10 | P | 125 | |
| 5 | 20CV342 | Suryawanshi Sanika Kailas | 78 | | 02 | 02 | 02 | 02 | 02 | 10 | Sub | | | 02 | 02 | 02 | 02 | 02 | 10 | P | 88 | |
| 6 | 20CV325 | Mudekar Sanket Shashikant | 89 | | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 3 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 109 | |
| 7 | 20CV337 | Shinde Ritik Shashikant | 59 | 3 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 2 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 79 | |
| 8 | 20CV336 | Shelke Yash Pramod | 64 | 4 | ← | | | | | | | → | 0 | 02 | 02 | 02 | 02 | 02 | 10 | P | 74 | |
| 9 | 20CV324 | Mhetre Swapnil Suresh | 16 | 0 | ← | | | | | | | → | 2 | ← | | | | | | → | 16 | |
| 10 | 20CV326 | Petkar Sakshi Santosh | 87 | 0 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 1 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 107 | |
| 11 | 20CV330 | Salve Akash Pandharinath | 53 | 7 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 5 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 73 | |
| 12 | 20CV344 | Umate Prathmesh Laxman | 55 | 5 | ← | | | | | | | → | 0 | 02 | 02 | 02 | 02 | 02 | 10 | P | 75 | |
| 13 | 20CV345 | Valkunde Sneha Rajendra | 86 | 0 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 1 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 106 | |
| 14 | 20CV333 | Sarode Ketaki Vijay | 86 | 1 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 5 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 106 | |
| 15 | 20CV341 | Surve Aishwarya Nandkumar | 68 | 7 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 0 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 88 | |
| 16 | 20CV329 | Salunke Gayatri Madhav | 77 | 1 | 02 | 02 | 02 | 02 | 02 | 10 | Sub | 1 | | 02 | 02 | 02 | 02 | 02 | 10 | P | 97 | |
| 17 | 20CV346 | Deshmukh Vishwajeet Ramachandra | 80 | | ← | | | | | | | → | | 02 | 02 | 02 | 02 | 02 | 10 | P | 90 | |
| 18 | 20CV331 | Gore Sampat Sunil | 53 | | 02 | 02 | 02 | 02 | 02 | 10 | Sub | | | 02 | 02 | 02 | 02 | 02 | 10 | P | 73 | |
| 19 | 20CV328 | Ingawale Ritesh Ravikant | 83 | | ← | | | | | | | → | | 02 | 02 | 02 | 02 | 02 | 10 | P | 93 | |
| 20 | 20CV343 | Kedar Suyog Sudhakar | 00 | | ← | | | | | | | → | | 02 | 02 | 02 | 02 | 02 | 10 | P | 10 | |
| 21 | 20CV338 | Dukare Shruti Sharad | 73 | ✓ | 02 | 02 | 02 | 02 | 02 | 10 | Sub | ✓ | | 02 | 02 | 02 | 02 | 02 | 10 | P | 93 | |

Faculty Name & Signature

HOD Signature

TA: Theory Attendance (2)

PP: Practical Performance (2)

UT: Understanding of Topic (2)

TS: Timely Submission (2)

O: Overall (2) (Sincerity, Initiative, etc.)

T: Total (10)

Student's Sign

HEAD OF DEPARTMENT
CIVIL ENGINEERING
AISSMS's COE, PUNE-1.



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Civil Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: T.E. | | | DIV: B | | BATCH: H 02109 | | SUBJECT: Water Supply Engineering | | | | | NAME OF FACULTY: Mr. Chetan R. Yeole | | | | | | | | | | | | | | | | | | | | |
|--|----------|-------------------------|---|----|----------------|-------------|-----------------------------------|---------------------------------|-------------|----|-------------|--------------------------------------|-----------------------|----|-------------|-------------|----|-----------------------|----|----|---------------------|------------|-----------------------|----|----|-------------|---------------------|----|--|--|--|--|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 03 (Revision) | | | | | Expt. No.: 06 (08/09) | | | | | Expt. No.: 04 (15/09) | | | | | Expt. No.: 06 (22/09) | | | | | Expt. No.: 05 (29/09) | | | | | | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | | | | | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | | | | | |
| 1 | 20CV123 | Waghmare Sumit Shivaji | | | | | AB | | | | | | | | | AB | 01 | 03 | 01 | 05 | Sumit | 02 | 02 | 04 | 08 | Sumit | 13 | | | | | |
| 2 | 20CV124 | Waike Shwet Santosh | | | | | AB | | | | | | | | | AB | 01 | 02 | 02 | 05 | Shwet | | | | | AB | 05 | | | | | |
| 3 | 20CV125 | Warang Gauri Nandkishor | | | | | AB | | | | | | | | | AB | | | | | AB | | | | | AB | 00 | | | | | |
| 4 | 20CV126 | Warule Siddhesh Sandip | 2 | 4 | 3 | 09 | | 02 | 03 | 03 | 08 | | | | | AB | 01 | 02 | 02 | 05 | Sandip | 02 | 03 | 03 | 08 | | 30 | | | | | |
| 5 | 20CV127 | Yadav Akshay Dhanaji | | | | | AB | 01 | 03 | 03 | 07 | 02 | 03 | 02 | 07 | P | 01 | 01 | 02 | 05 | ADY | 02 | 03 | 03 | 08 | ADY | 27 | | | | | |
| 6 | 20CV202 | Tirmake Janhavi R | 2 | 4 | 4 | 10 | | 02 | 03 | 04 | 09 | | | | | AB | 03 | 02 | 04 | 07 | Janhavi | 02 | 03 | 03 | 08 | Janhavi | 34 | | | | | |
| 7 | 21CV316 | Nagargoje Bhagwan M | 1 | 2 | 4 | 07 | | | | | | AB | 01 | 04 | 03 | 08 | | 02 | 02 | 03 | 07 | B | 02 | 03 | 03 | 08 | B | 30 | | | | |
| 8 | 21CV317 | Panpatkar Vaibhav N | | | | | AB | 01 | 03 | 04 | 08 | | 02 | 02 | 02 | 06 | | 02 | 04 | 02 | 08 | VB | 02 | 03 | 03 | 08 | VB | 30 | | | | |
| 9 | 21CV318 | Pardhi Chetan Bhaskar | 2 | 4 | 4 | 10 | | 02 | 03 | 04 | 09 | | 02 | 02 | 02 | 06 | | 02 | 03 | 03 | 08 | Chetan | | | | | AB | 33 | | | | |
| 10 | 21CV319 | Patil Himanshu Kishor | 2 | 4 | 4 | 10 | | 02 | 03 | 02 | 07 | | 02 | 03 | 02 | 07 | | 02 | 03 | 02 | 07 | H | | | | | AB | 31 | | | | |
| 11 | 21CV320 | Patil Pratiksha Ramesh | 2 | 4 | 4 | 10 | | 02 | 03 | 04 | 09 | | 02 | 03 | 01 | 06 | P | 02 | 03 | 03 | 08 | Pratiksha | 02 | 03 | 03 | 08 | Pratiksha | 41 | | | | |
| 12 | 21CV321 | Patil Sanyam Krushnarao | 2 | 4 | 4 | 10 | | 02 | 03 | 03 | 07 | | 02 | 03 | 01 | 06 | P | 02 | 02 | 02 | 06 | Sanyam | 02 | 03 | 03 | 08 | Sanyam | 37 | | | | |
| 13 | 21CV322 | Rajput Ayush Gajendra | 2 | 4 | 4 | 10 | | 02 | 02 | 04 | 08 | | 02 | 02 | 03 | 07 | | 02 | 03 | 03 | 08 | Ayush | 02 | 03 | 02 | 07 | Ayush | 40 | | | | |
| 14 | 21CV323 | Rokade Tejas Ganesh | 2 | 3 | 3 | 08 | | 02 | 02 | 04 | 08 | | 02 | 03 | 02 | 07 | | 02 | 04 | 01 | 07 | Tejas | 02 | 04 | 03 | 09 | Tejas | 39 | | | | |
| 15 | 21CV324 | Salunke Prathamesh S | 2 | 4 | 4 | 10 | | | | | | AB | 01 | 03 | 04 | 08 | | 02 | 02 | 02 | 06 | P | 02 | 04 | 02 | 08 | P | 32 | | | | |
| 16 | 21CV325 | Shirgave Shubham S | 2 | 4 | 4 | 10 | | 02 | 03 | 02 | 07 | | 02 | 03 | 01 | 06 | | 02 | 02 | 04 | 08 | Shubham | 02 | 03 | 04 | 09 | Shubham | 40 | | | | |
| 17 | 21CV326 | Shivsharan Rutesh S | 2 | 4 | 4 | 10 | | 02 | 03 | 02 | 07 | | 02 | 03 | 02 | 07 | | 02 | 02 | 03 | 07 | Shivsharan | 02 | 03 | 02 | 07 | Shivsharan | 38 | | | | |
| 18 | 21CV327 | Suryawanshi Shirawani H | 2 | 4 | 4 | 10 | | 02 | 02 | 03 | 07 | | 02 | 02 | 02 | 06 | P | 02 | 03 | 02 | 07 | H | 02 | 03 | 03 | 08 | H | 38 | | | | |
| 19 | 21CV328 | Tanpure Aishwarya H | | | | | AB | 01 | 03 | 04 | 08 | | | | | | AB | 01 | 03 | 04 | 08 | Aishwarya | 02 | 04 | 03 | 09 | Aishwarya | 25 | | | | |
| 20 | 21CV329 | Thombare Omkar Sudhir | | | | | AB | 01 | 02 | 04 | 07 | | 02 | 02 | 02 | 06 | P | 02 | 03 | 02 | 07 | O | 02 | 01 | 04 | 08 | O | 28 | | | | |
| 21 | 21CV330 | Ugalkar Rashi Ganeshrao | 2 | 4 | 4 | 10 | | 02 | 03 | 04 | 09 | | 02 | 03 | 02 | 07 | | 02 | 03 | 02 | 07 | Rashi | 02 | 03 | 03 | 08 | Rashi | 41 | | | | |
| 22 | 21CV331 | Yadav Shreya Sanjeev | 2 | 4 | 4 | 10 | | | | | | AB | 02 | 02 | 02 | 06 | P | 02 | 02 | 02 | 06 | Shreya | | | | | AB | 22 | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | (pH&Hardness) | | | | | | (Turbidity) | | | | | | (Chlorides) | | | | | | (Water Test Approx) | | | | | | (Residual Chlorine) | | | | | |
| R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) | | | PP: Marks for Performance & Presentation (04) | | | | | U: Marks for Understanding (04) | | | | | SS: Student Signature | | | | | | | | | | | | | | | | | | | |
| Faculty Name & Signature: Mr. C. R. Yeole | | | (02/09) | | | | | (08/09) | | | | | (15/09) | | | | | (22/09) | | | | | (29/09) | | | | | | | | | |
| HoD Signature: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Accredited by NAAC with "A+" Grade



Department of Civil Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: T.E. | | | DIV: B | | BATCH: H | | SUBJECT: Water Supply Engineering | | | | | | | | | | NAME OF FACULTY: Mr. C. R. Yeole | | | | | | | | | | Total Sub | |
|-------------|----------|---------------------|-------------------------|----|----------|-------------|-----------------------------------|-----------------------|----|----|-------------|----|---------------------|----|----|-------------|----------------------------------|-------------|----|---|-------------|----|-------------|----|---|-------------|-----------|-------------|
| Sr. No | Roll No. | Name of the Student | Expt. No.: (MPN) | | | | | Expt. No.: WTP (Soft) | | | | | Expt. No.: (EPANET) | | | | | Expt. No.: | | | | | Total Marks | | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | |
| 13 | 1 | 20CV123 | Waghmare Sumit Shivaji | | | | | AB | 02 | 02 | 02 | 06 | Sumit | 02 | 03 | 02 | 07 | Sumit | | | | | | | | | 26 | Sumit |
| 05 | 2 | 20CV124 | Waikul Shwet Santosh | | | | | AB | | | | | AB | | | | | AB | | | | | | | | | 05 | |
| 00 | 3 | 20CV125 | Warang Gauri Nandkishor | 02 | 02 | 02 | 06 | Warang | 02 | 03 | 02 | 07 | Warang | 02 | 02 | 02 | 06 | Warang | | | | | | | | | 19 | Warang |
| 30 | 4 | 20CV126 | Warule Siddhesh Sandip | 02 | 03 | 04 | 09 | Warule | 02 | 02 | 02 | 06 | Warule | 02 | 02 | 03 | 07 | Warule | | | | | | | | | 52 | Warule |
| 27 | 5 | 20CV127 | Yadav Akshay Dhanaji | 02 | 03 | 03 | 08 | Yadav | 02 | 03 | 04 | 09 | Yadav | 02 | 03 | 04 | 09 | Yadav | | | | | | | | | 53 | Yadav |
| 34 | 6 | 20CV202 | Tirmake Janhavi R | | | | | AB | 02 | 03 | 02 | 07 | Tirmake | 02 | 03 | 03 | 08 | Tirmake | | | | | | | | | 49 | Tirmake |
| 30 | 7 | 21CV316 | Nagargoje Bhagwan M | 02 | 03 | 03 | 08 | Nagargoje | 02 | 03 | 02 | 07 | Nagargoje | 02 | 03 | 03 | 08 | Nagargoje | | | | | | | | | 53 | Nagargoje |
| 30 | 8 | 21CV317 | Paipatkar Vaibhav N | | | | | AB | 02 | 02 | 02 | 06 | Paipatkar | 02 | 03 | 02 | 07 | Paipatkar | | | | | | | | | 43 | Paipatkar |
| 33 | 9 | 21CV318 | Pardhi Chetan Bhaskar | | | | | AB | 02 | 03 | 02 | 07 | Pardhi | 02 | 03 | 03 | 08 | Pardhi | | | | | | | | | 48 | Pardhi |
| 31 | 10 | 21CV319 | Patil Himanshu Kishor | 02 | 04 | 02 | 08 | Patil | 02 | 04 | 03 | 09 | Patil | 02 | 03 | 03 | 08 | Patil | | | | | | | | | 55 | Patil |
| 41 | 11 | 21CV320 | Patil Pratiksha Ramesh | 02 | 03 | 02 | 07 | Patil | 02 | 03 | 03 | 08 | Patil | 02 | 04 | 03 | 09 | Patil | | | | | | | | | 60 | Patil |
| 37 | 12 | 21CV321 | Patil Sanyam Krushnarao | 02 | 03 | 03 | 08 | Patil | 02 | 04 | 01 | 07 | Patil | 02 | 03 | 03 | 08 | Patil | | | | | | | | | 67 | Patil |
| 40 | 13 | 21CV322 | Rajput Ayush Gajendra | 02 | 04 | 03 | 09 | Rajput | 02 | 03 | 04 | 09 | Rajput | 02 | 03 | 04 | 09 | Rajput | | | | | | | | | 65 | Rajput |
| 39 | 14 | 21CV323 | Rokade Tejas Ganesh | 02 | 04 | 03 | 09 | Rokade | 02 | 03 | 03 | 08 | Rokade | 02 | 03 | 04 | 09 | Rokade | | | | | | | | | 58 | Rokade |
| 32 | 15 | 21CV324 | Salunke Prathamesh S | 02 | 04 | 03 | 09 | Salunke | 02 | 04 | 03 | 09 | Salunke | 02 | 03 | 03 | 08 | Salunke | | | | | | | | | 67 | Salunke |
| 40 | 16 | 21CV325 | Shirgave Shubham S | 02 | 04 | 03 | 09 | Shirgave | 02 | 03 | 04 | 09 | Shirgave | 02 | 04 | 03 | 09 | Shirgave | | | | | | | | | 53 | Shirgave |
| 38 | 17 | 21CV326 | Shivsharan Rutesh S | | | | | AB | 02 | 03 | 02 | 07 | Shivsharan | 02 | 03 | 03 | 08 | Shivsharan | | | | | | | | | 61 | Shivsharan |
| 38 | 18 | 21CV327 | Suryawanshi Shrawani H | 02 | 03 | 04 | 09 | Suryawanshi | 02 | 02 | 03 | 08 | Suryawanshi | 02 | 03 | 02 | 07 | Suryawanshi | | | | | | | | | 50 | Suryawanshi |
| 25 | 19 | 21CV328 | Tanpure Aishwarya H | 02 | 04 | 03 | 09 | Tanpure | 02 | 03 | 03 | 08 | Tanpure | 02 | 03 | 03 | 08 | Tanpure | | | | | | | | | 52 | Tanpure |
| 28 | 20 | 21CV329 | Thombare Omkar Sudhir | 01 | 04 | 03 | 08 | Thombare | 02 | 03 | 02 | 07 | Thombare | 02 | 03 | 04 | 09 | Thombare | | | | | | | | | 68 | Thombare |
| 41 | 21 | 21CV330 | Ugalkar Rishi Ganeshrao | 02 | 03 | 04 | 09 | Ugalkar | 02 | 03 | 04 | 09 | Ugalkar | 02 | 03 | 04 | 09 | Ugalkar | | | | | | | | | 47 | Ugalkar |
| 22 | 22 | 21CV331 | Yadav Shreya Sanjeev | 02 | 03 | 03 | 08 | Yadav | 02 | 03 | 04 | 09 | Yadav | 02 | 03 | 03 | 08 | Yadav | | | | | | | | | | |
| 23 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th & Pr. attendance to be observed)

PP: Marks for Performance & Presentation (04)

U: Marks for Understanding (04)

SS: Student Signature

Faculty Name & Signature:

Mr. C. R. Yeole

(13/10/22)

Residual Chlorine +
Practical Performance design of
+ WTP software demo Water Distribut
+ Fluoride content Network.

(10/11/22) EPANET HoD Signature:

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CIVIL ENGINEERING
AISSMS's COE, PUNE-1.



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COLLEGE OF ENGINEERING

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Accredited by NAAC with "A+" Grade



Department of Computer Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: TE | | DIV: A | | BATCH: B | | SUBJECT: DBMSL | | | | | NAME OF FACULTY: VANDANA V. NAVALE | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|---------------|----------|---|----------------|-------------|---------------|----|---|------------------------------------|-------------|---------------|----|---|-------------|-------------|---------------|----|----|-------------|-------------|---------------|----|----|-------------|-------------|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 06 | | | | | Expt. No.: 07 | | | | | Expt. No.: 08 | | | | | Expt. No.: 09 | | | | | Expt. No.: 10 | | | | |
| | | | Date: 18/8/22 | | | | | Date: 22/8/22 | | | | | Date: 25/8/22 | | | | | Date: 29/8/22 | | | | | Date: 1/9/22 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 20CO021 | DESHPANDE AKANKSHA | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 2 | 20CO022 | DHOPATE PRANAY | 2 | 4 | 3 | 09 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 2 | 4 | 08 | Handwritten |
| 3 | 20CO023 | DHUMAL YASH | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 4 | 20CO024 | GAIKWAD PRIHVIRAJ | 2 | 4 | 4 | 10 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 5 | 20CO025 | GANDHI ATHARVA ATUL | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 6 | 20CO026 | GAVALI SNEHA | 2 | 3 | 3 | 08 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 7 | 20CO027 | GAWALI RISHIKESH | 2 | 3 | 3 | 08 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 4 | 08 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | |
| 8 | 20CO028 | GOKHARE ATHARVA | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 9 | 20CO029 | GOLE PRANALI SANJAY | 2 | 2 | 4 | 08 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 10 | 20CO030 | GORE GAURAV | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 2 | 07 | Handwritten |
| 11 | 20CO031 | GUPTA SHLOK | 2 | 2 | 4 | 08 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 12 | 20CO033 | ILIHAS SHABUDDIN | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 13 | 20CO034 | JADHAV KUNAL DHANAJI | 2 | 3 | 2 | 07 | Handwritten | 2 | 2 | 2 | 06 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 14 | 20CO035 | JADHAV SHAILESH | 2 | 2 | 2 | 07 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten |
| 15 | 20CO036 | JADHAV SONAL | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 16 | 20CO038 | JADHAV VAIBHAVI | 2 | 3 | 2 | 07 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 3 | 2 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 17 | 20CO038 | JADHAV VAISHNAVI | 2 | 4 | 2 | 08 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 18 | 20CO039 | JAGDALE SAI SACHIN | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 19 | 20CO040 | JAHNAVI AJAY SHEJUL | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 2 | 2 | 07 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 20 | 20CO041 | JAMDAR ATHARVA DILIP | 2 | 4 | 2 | 08 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Vandana V. Navale

HoD Signature:

H.O.D.
Computer Engg Dept
AISSMS COE Pune



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
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Department of Computer Engineering

Continuous Assessment sheet : TERM-II Academic Year: 2022-23

| CLASS: TE DIV: A BATCH: A | | | SUBJECT: <u>DSBDL</u> | | | | | | | | | | NAME OF FACULTY: <u>Vandana Navale</u> | | | | | | | | | | Expt. No.: <u>5</u> Date: <u>10/8/23</u> | | | | |
|---------------------------|----------|------------------------------|--|----|---|-------------|----|---|----|---|-------------|----|---|----|---|-------------|----|--|----|---|-------------|----|---|----|---|-------------|----|
| Sr. No | Roll No. | Name of the Student | Expt. No.: <u>1</u> Date: <u>8/2/23</u> | | | | | Expt. No.: <u>2</u> Date: <u>10/2/23</u> | | | | | Expt. No.: <u>3</u> Date: <u>17/2/23</u> | | | | | Expt. No.: <u>4</u> Date: <u>3/3/23</u> | | | | | Expt. No.: <u>5</u> Date: <u>10/8/23</u> | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 21CO301 | ABNAVE PRATIK MAHADEV | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 3 | 07 | |
| 2 | 20CO001 | ADITYA PRASHANT DAYAL (EWS) | 2 | 3 | 2 | 07 | | 2 | 2 | 3 | 06 | | 2 | 2 | 1 | 05 | | 2 | 2 | 1 | 05 | | 2 | 3 | 2 | 07 | |
| 3 | 20CO002 | AGLAWE SATANSHU SATISH | 2 | 2 | 2 | 06 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | |
| 4 | 20CO003 | AGRAWAL ADITYA DILIP | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 1 | 05 | | 2 | 3 | 2 | 07 | |
| 5 | 20CO004 | ANKUR SURWASE | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 1 | 2 | 05 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | |
| 6 | 20CO005 | ANURAG JADHAV (TFWS) | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 1 | 05 | | 2 | 2 | 2 | 06 | | 2 | 3 | 3 | 08 | |
| 7 | 20CO006 | ATHARVA PATIL | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 2 | 06 | |
| 8 | 20CO007 | ATRE CHINMAYEE MAHESH | 2 | 3 | 3 | 08 | | 2 | 2 | 2 | 06 | | 2 | 2 | 3 | 07 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | |
| 9 | 20CO008 | BAGAL GAURAV BHASKAR | 2 | 3 | 2 | 07 | | 2 | 2 | 1 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 1 | 05 | | 2 | 3 | 2 | 07 | |
| 10 | 20CO009 | BANGINWAR AVANTI MANOJ | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 3 | 3 | 08 | |
| 11 | 20CO010 | BAVA NIKHIL (J & K) | 2 | 3 | 2 | 07 | | 2 | 2 | 1 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | |
| 12 | 20CO011 | BHAGWAT TANMAY SANTOSH | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 3 | 2 | 07 | |
| 13 | 20CO012 | BHIRANGE SOHAM JAYANT | 2 | 2 | 3 | 07 | | 2 | 1 | 2 | 05 | | 2 | 3 | 2 | 07 | | 2 | 2 | 1 | 05 | | 2 | 2 | 2 | 06 | |
| 14 | 21CO302 | BHOSALE ANURAG BALIRAM (EWS) | 2 | 2 | 2 | 06 | | 2 | 1 | 1 | 04 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | |
| 15 | 20CO013 | BODAKE ADITYA ANIL | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | | 2 | 2 | 3 | 07 | |
| 16 | 20CO014 | BODARE SHUBHAM SHIVAJI | 2 | 2 | 3 | 07 | | 2 | 2 | 1 | 05 | | 2 | 3 | 3 | 08 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | |
| 17 | 20CO015 | BOKADE PRANAV MAHESH | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | |
| 18 | 20CO016 | BOLLI VAISHNAVI RAJESH | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | | 2 | 1 | 2 | 05 | | 2 | 3 | 2 | 07 | |
| 19 | 21CO303 | BOMBLE SARVESH UMESH | 2 | 2 | 2 | 06 | | 2 | 2 | 1 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 1 | 06 | | 2 | 3 | 2 | 07 | |
| 20 | 20CO017 | CHANGAN LAUKIK SANTOSH | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 3 | 3 | 08 | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: V.V. Navale

HoD Signature: [Signature]
H.O.D.
Computer Engg. Dep.
AISSMS COE Pune



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Computer Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: TE | | DIV: A | BATCH: B | | SUBJECT: DBMSL | | | | | NAME OF FACULTY: VANDANA V. NAVALE | | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|---------------|----|----------------|-------------|-------------|---------------|----|------------------------------------|-------------|-------------|---------------|----|---|-------------|-------------|---------------|----|---|-------------|-------------|---------------|----|---|-------------|-------------|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 06 | | | | | Expt. No.: 07 | | | | | Expt. No.: 08 | | | | | Expt. No.: 09 | | | | | Expt. No.: 10 | | | | |
| | | | Date: 18/8/22 | | | | | Date: 22/8/22 | | | | | Date: 25/8/22 | | | | | Date: 29/8/22 | | | | | Date: 1/9/22 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 20CO021 | DESHPANDE AKANKSHA | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 2 | 20CO022 | DHOPATE PRANAY | 2 | 4 | 3 | 09 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 2 | 4 | 08 | Handwritten |
| 3 | 20CO023 | DHUMAL YASH | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 4 | 20CO024 | GAIKWAD PRIHVIRAJ | 2 | 4 | 4 | 10 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 5 | 20CO025 | GANDHI ATHARVA ATUL | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 6 | 20CO026 | GAVALI SNEHA | 2 | 3 | 3 | 08 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 7 | 20CO027 | GAWALI RISHIKESH | 2 | 3 | 3 | 08 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 2 | 4 | 08 | Handwritten |
| 8 | 20CO028 | GOKHARE ATHARVA | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 9 | 20CO029 | GOLE PRANALI SANJAY | 2 | 2 | 4 | 08 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 10 | 20CO030 | GORE GAURAV | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 2 | 07 | Handwritten |
| 11 | 20CO031 | GUPTA SHLOK | 2 | 2 | 4 | 08 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 12 | 20CO033 | ILIHAS SHABUDDIN | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 13 | 20CO034 | JADHAV KUNAL DHANAJI | 2 | 3 | 2 | 07 | Handwritten | 2 | 2 | 2 | 06 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 14 | 20CO035 | JADHAV SHAILESH | 2 | 2 | 2 | 07 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten |
| 15 | 20CO036 | JADHAV SONAL | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 2 | 07 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 16 | 20CO038 | JADHAV VAIBHAVI | 2 | 3 | 2 | 07 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 4 | 10 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 17 | 20CO038 | JADHAV VAISHNAVI | 2 | 4 | 2 | 08 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 3 | 3 | 08 | Handwritten |
| 18 | 20CO039 | JAGDALE SAI SACHIN | 2 | 3 | 2 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten | 2 | 4 | 2 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 19 | 20CO040 | JAHAVALI AJAY SHEJUL | 2 | 2 | 4 | 08 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 3 | 3 | 08 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |
| 20 | 20CO041 | JAMDAR ATHARVA DILIP | 2 | 4 | 2 | 08 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 4 | 3 | 09 | Handwritten | 2 | 2 | 3 | 07 | Handwritten | 2 | 3 | 4 | 09 | Handwritten |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Vandana V. Navale

HoD Signature:

H.O.D.

Computer Engg Dept
AISSMS COE Pune



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Computer Engineering

Continuous Assessment sheet : TERM-II Academic Year: 2022-23

| CLASS: TE DIV: A BATCH: A | | | SUBJECT: <u>DSBDL</u> | | | | | NAME OF FACULTY: <u>Vandana Navale</u> | | | | | | | | | | Expt. No.: <u>5</u> | | | | |
|---------------------------|----------|------------------------------|-----------------------|----|---|-------------|----|--|----|---|-------------|----|----------------------|----|---|-------------|----|---------------------|----|---|-------------|----|
| | | | Expt. No.: <u>1</u> | | | | | Expt. No.: <u>2</u> | | | | | Expt. No.: <u>3</u> | | | | | Expt. No.: <u>4</u> | | | | |
| | | | Date: <u>8/2/23</u> | | | | | Date: <u>10/2/23</u> | | | | | Date: <u>17/2/23</u> | | | | | Date: <u>3/3/23</u> | | | | |
| Sr. No | Roll No. | Name of the Student | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 21CO301 | ABNAVE PRATIK MAHADEV | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | |
| 2 | 20CO001 | ADITYA PRASHANT DAYAL (EWS) | 2 | 3 | 2 | 07 | | 2 | 2 | 3 | 06 | | 2 | 2 | 1 | 05 | | 2 | 2 | 1 | 05 | |
| 3 | 20CO002 | AGLAWA SATANSHU SATISH | 2 | 2 | 2 | 06 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 2 | 2 | 06 | |
| 4 | 20CO003 | AGRAWAL ADITYA DILIP | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 1 | 05 | |
| 5 | 20CO004 | ANKUR SURWASE | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 1 | 2 | 05 | | 2 | 1 | 2 | 05 | |
| 6 | 20CO005 | ANURAG JADHAV (TFWS) | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 1 | 05 | | 2 | 2 | 2 | 06 | |
| 7 | 20CO006 | ATHARVA PATIL | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | |
| 8 | 20CO007 | ATRE CHINMAYEE MAHESH | 2 | 3 | 3 | 08 | | 2 | 2 | 2 | 06 | | 2 | 2 | 3 | 07 | | 2 | 1 | 2 | 05 | |
| 9 | 20CO008 | BAGAL GAURAV BHASKAR | 2 | 3 | 2 | 07 | | 2 | 2 | 1 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 1 | 05 | |
| 10 | 20CO009 | BANGINWAR AVANTI MANOJ | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | |
| 11 | 20CO010 | BAVA NIKHIL (J & K) | 2 | 3 | 2 | 07 | | 2 | 2 | 1 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | |
| 12 | 20CO011 | BHAGWAT TANMAY SANTOSH | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | |
| 13 | 20CO012 | BHIRANGE SOHAM JAYANT | 2 | 2 | 3 | 07 | | 2 | 1 | 2 | 05 | | 2 | 3 | 2 | 07 | | 2 | 2 | 1 | 05 | |
| 14 | 21CO302 | BHOSALE ANURAG BALIRAM (EWS) | 2 | 2 | 2 | 06 | | 2 | 1 | 1 | 04 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | |
| 15 | 20CO013 | BODAKE ADITYA ANIL | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 2 | 06 | |
| 16 | 20CO014 | BODARE SHUBHAM SHIVAJI | 2 | 2 | 3 | 07 | | 2 | 2 | 1 | 05 | | 2 | 3 | 3 | 08 | | 2 | 1 | 2 | 05 | |
| 17 | 20CO015 | BOKADE PRANAV MAHESH | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | |
| 18 | 20CO016 | BOLLI VAISHNAVI RAJESH | 2 | 2 | 2 | 06 | | 2 | 1 | 2 | 05 | | 2 | 2 | 3 | 07 | | 2 | 1 | 2 | 05 | |
| 19 | 21CO303 | BOMBLE SARVESH UMESH | 2 | 2 | 2 | 06 | | 2 | 2 | 1 | 05 | | 2 | 2 | 3 | 07 | | 2 | 2 | 1 | 06 | |
| 20 | 20CO017 | CHANGAN LAUKIK SANTOSH | 2 | 2 | 2 | 06 | | 2 | 2 | 2 | 06 | | 2 | 3 | 2 | 07 | | 2 | 1 | 2 | 05 | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: V.V. Navale

HoD Signature: [Signature]

H.O.D.
Computer Engg Dept
AISSMS COE Pune



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Electrical Engineering

Continuous Assessment sheet : TERM-I/II Academic Year: 22-23

CLASS: TE DIV: A BATCH: A SUBJECT: PSST NAME OF FACULTY: V.S. Ponkshe
Expt. No.: 2012 Date: 20/12 Expt. No.: 2013 Date: 20/12 Expt. No.: 2013 Date: 20/12 Expt. No.: 04 Date: 04/01/23 Expt. No.: 05 Date: 05/01/23

| Sr. No | Roll No. | Name of the Student | Expt. No.: <u>2012</u> Date: <u>20/12</u> | | | | | Expt. No.: <u>2013</u> Date: <u>20/12</u> | | | | | Expt. No.: <u>2013</u> Date: <u>20/12</u> | | | | | Expt. No.: <u>04</u> Date: <u>04/01/23</u> | | | | | Expt. No.: <u>05</u> Date: <u>05/01/23</u> | | | | |
|--------|----------|-------------------------|--|----|---|-------------|-----|--|----|---|-------------|-----|--|----|---|-------------|-----|---|----|---|-------------|-----|---|----|---|-------------|-----|
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 20EL001 | ACHAL JAYANT TAPRE | 1 | 3 | 3 | 07 | 0.7 | 1 | 4 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 4 | 09 | 0.9 |
| 2 | 21EL301 | AHIRE PRASAD KAILAS | 1 | 3 | 3 | 08 | 0.8 | 1 | 4 | 3 | 08 | 0.8 | 2 | 3 | 4 | 09 | 0.9 | 2 | 3 | 3 | 08 | 0.8 | 1 | 3 | 3 | 07 | 0.7 |
| 3 | 20EL002 | AJIT BALASAMBAH SAWARE | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 07 | 0.7 |
| 4 | 21EL302 | AMBHORE PIYUSH BABURAO | 1 | 3 | 3 | 07 | 0.7 | 1 | 4 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 |
| 5 | 21EL303 | ANDHARE ABHISHEK RAJESH | 1 | 3 | 4 | 08 | 0.8 | 1 | 4 | 4 | 09 | 0.9 | 2 | 4 | 4 | 10 | 1.0 | 2 | 4 | 4 | 10 | 1.0 | 2 | 4 | 4 | 09 | 0.9 |
| 6 | 20EL003 | ANIKET RAVAN SAHU | 1 | 3 | 4 | 08 | 0.8 | 1 | 4 | 4 | 09 | 0.9 | 2 | 3 | 4 | 09 | 0.9 | 2 | 4 | 3 | 09 | 0.9 | 2 | 3 | 4 | 09 | 0.9 |
| 7 | 20EL004 | ASHTAKAR MANAS MUKUND | 1 | 4 | 4 | 09 | 0.9 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 | 2 | 3 | 3 | 08 | 0.8 |
| 8 | 20EL005 | ATHAWALI YASH SANJAY | 1 | 3 | 3 | 07 | 0.7 | 1 | 4 | 2 | 07 | 0.7 | 1 | 3 | 3 | 07 | 0.7 | 1 | 3 | 3 | 07 | 0.7 | 1 | 3 | 3 | 07 | 0.7 |
| 9 | 20EL006 | BADHE ATHARVA VISMAL | 0 | 3 | 4 | 07 | 0.7 | 0 | 3 | 4 | 07 | 0.7 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 4 | 07 | 0.7 | 0 | 3 | 3 | 06 | 0.6 |
| 10 | 20EL007 | BAGARI YASHVARDHAN C | | | | 06 | | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 11 | 20EL008 | BAVISKAR LUTESH SUDHIR | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 12 | 21EL304 | BELT GOVIND DEVIDAS | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 13 | 20EL009 | BHOJ DATTARAJ ARUN | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 14 | 20EL010 | BHOITE VAIBHAV T | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 15 | 20EL011 | BONDE BH. VANESH R | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 16 | 20EL012 | BORUDE NIKHIL MITTHU | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 17 | 20EL013 | BUGUDE U. NAI U | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 18 | 20EL014 | CHAVHAN SARAJESING B | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 | 0 | 3 | 3 | 06 | 0.6 |
| 19 | 21EL305 | DISHAMUKH NIKAJ N | 1 | 3 | 3 | 07 | 0.7 | 2 | 4 | 3 | 09 | 0.9 | 2 | 3 | 4 | 09 | 0.9 | 2 | 3 | 4 | 09 | 0.9 | 2 | 4 | 3 | 09 | 0.9 |

R Marks for Regularity (02) (H & Pr attendance to be observed) PP Marks for Performance & Presentation (04) U Marks for Understanding (04) SS Student's Signature

Faculty Name & Signature: V.S. Ponkshe

HoD Signature

Head

Department of Electrical Engineering
AISSMS College of Engineering, Pune



AISSMS

COLLEGE OF ENGINEERING

इंजीनियरिंग कलेज
Accredited by NAAC with "A+" Grade



Department of

Engineering

Continuous Assessment sheet : TERM-II

Academic Year: 22-23

CLASS: TE DIV: - BATCH: A

SUBJECT: PS-II

NAME OF FACULTY: V S Panksh

| Sr. No | Roll No. | Name of the Student | Expt. No.: 06 | | | | | Expt. No.: 07 ✓ | | | | | Expt. No.: 08 | | | | | Expt. No.: 09 | | | | | Expt. No.: 10 | | | | |
|--------|----------|-------------------------|---------------|----|---|-------------|----|-----------------|----|---|-------------|----|---------------|----|---|-------------|----|---------------|----|---|-------------|----|---------------|----|---|-------------|----|
| | | | Date: X9/X9 | | | | | Date: 07/07 | | | | | Date: X2 | | | | | Date: X0 | | | | | Date: 10/10 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 20EL001 | ACHAL JAYANT TAPRE | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 |
| 2 | 21EL301 | AMIRE PRASAD KAILAS | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 |
| 3 | 20EL002 | AJIT BALASAHEB SAWARE | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 |
| 4 | 21EL302 | AMBHORE PIYUSH BABURAO | 34 | 2 | 3 | 3 | 08 | 34 | 2 | 3 | 3 | 08 | 34 | 2 | 3 | 3 | 08 | 34 | 2 | 3 | 3 | 08 | 34 | 2 | 3 | 3 | 08 |
| 5 | 21EL303 | ANJURE ABHISHEK RAJESH | 45 | 2 | 4 | 4 | 10 | 45 | 2 | 4 | 4 | 10 | 45 | 2 | 4 | 4 | 10 | 45 | 2 | 4 | 4 | 10 | 45 | 2 | 4 | 4 | 10 |
| 6 | 20EL003 | ANIKET RANJAN SAHU | 44 | 2 | 4 | 4 | 10 | 44 | 2 | 4 | 4 | 10 | 44 | 2 | 4 | 4 | 10 | 44 | 2 | 4 | 4 | 10 | 44 | 2 | 4 | 4 | 10 |
| 7 | 20EL004 | ASHTEKAR MANAS MUKUND | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 | 40 | 2 | 3 | 3 | 08 |
| 8 | 20EL005 | ATHAWALE SAMIL SANJAY | 36 | 2 | 3 | 3 | 08 | 36 | 2 | 3 | 3 | 08 | 36 | 2 | 3 | 3 | 08 | 36 | 2 | 3 | 3 | 08 | 36 | 2 | 3 | 3 | 08 |
| 9 | 20EL006 | BADHE ATHARVA VISHAL | 35 | 1 | 3 | 3 | 06 | 35 | 1 | 3 | 3 | 06 | 35 | 1 | 3 | 3 | 06 | 35 | 1 | 3 | 3 | 06 | 35 | 1 | 3 | 3 | 06 |
| 10 | 20EL007 | BAJARE YASHVARDHAN C | 28 | 0 | 3 | 3 | 05 | 28 | 0 | 3 | 3 | 05 | 28 | 0 | 3 | 3 | 05 | 28 | 0 | 3 | 3 | 05 | 28 | 0 | 3 | 3 | 05 |
| 11 | 20EL008 | BAVISKAR DIPTESH SUDHIR | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 | 32 | 1 | 3 | 3 | 07 |
| 12 | 21EL304 | BELE GOVIND DEVIDAS | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 |
| 13 | 20EL009 | BHOI DATTARAJ ARUN | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 |
| 14 | 20EL010 | BHOITE VAIBHAV T | 34 | 1 | 3 | 3 | 07 | 34 | 1 | 3 | 3 | 07 | 34 | 1 | 3 | 3 | 07 | 34 | 1 | 3 | 3 | 07 | 34 | 1 | 3 | 3 | 07 |
| 15 | 20EL011 | BONDE BHUVANESH R | 32 | 2 | 3 | 3 | 07 | 32 | 2 | 3 | 3 | 07 | 32 | 2 | 3 | 3 | 07 | 32 | 2 | 3 | 3 | 07 | 32 | 2 | 3 | 3 | 07 |
| 16 | 20EL012 | BORUDE NIKHIL MITTHU | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 | 35 | 2 | 3 | 3 | 08 |
| 17 | 20EL013 | BUGUDE UJWAL U | 31 | 2 | 3 | 3 | 07 | 31 | 2 | 3 | 3 | 07 | 31 | 2 | 3 | 3 | 07 | 31 | 2 | 3 | 3 | 07 | 31 | 2 | 3 | 3 | 07 |
| 18 | 20EL014 | CHAVHAN SWARAJING B | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 | 33 | 2 | 3 | 3 | 08 |
| 19 | 21EL305 | DESHMUKH NIRAJ N | 42 | 2 | 3 | 4 | 09 | 42 | 2 | 3 | 4 | 09 | 42 | 2 | 3 | 4 | 09 | 42 | 2 | 3 | 4 | 09 | 42 | 2 | 3 | 4 | 09 |

R: Marks for Regularity (02) (Th & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: V.S. Panksh

HoD Signature: Hood

Department of Electrical Engineering
AISSMS College of Engineering, Pune

TW of PS-II for 22 - 23 - Term - II

| TW OF PS-II FOR 22-23 | | | | | | | | | | | | | |
|-----------------------|-------------------------|----|-------|-------|--------|----------|----------|----------|--------|-------|--------|-------|----|
| | | Th | % Att | Marks | CAS | | Tutorial | | MOC OR | Insem | Actual | TW | OR |
| | | | | 5 | Actual | 100 5 | Actual | 100 5 | 10 | 30 | 25 | 25 | 50 |
| 1 | ACHAL JAYANT TAPRE | 35 | 70 | 3.5 | 83 | 4.15 | 80 | 4 | 7 | 13 | 19 | 18.65 | 25 |
| 2 | AHIRE PRASAD KAILAS | 33 | 66 | 3.3 | 84 | 4.2 | 92 | 4.6 | 9 | 25 | 21 | 21.1 | 42 |
| 3 | AJIT BALASAHEB SAWARE | 17 | 34 | 1.7 | 69 | 3.45 | 60 | 3 | 6 | 12 | 14 | 14.15 | 10 |
| 4 | AMBHORE PIYUSH BABURAO | 33 | 66 | 3.3 | 73 | 3.65 | 75 | 3.75 | 5 | 6 | 16 | 15.7 | 32 |
| 5 | ANDHARE ABHISHEK RAJESH | 31 | 62 | 3.1 | 91 | 4.55 | 87 | 4.35 | 8 | 19 | 20 | 20 | 37 |
| 6 | ANIKET RANJAN SAHU | 43 | 86 | 4.3 | 93 | 4.65 | 90 | 4.5 | 9 | 16 | 22 | 22.45 | 38 |
| 7 | ASHTEKAR MANAS MUKUND | 43 | 86 | 4.3 | 82 | 4.1 | 78 | 3.9 | 7 | 12 | 19 | 19.3 | 35 |
| 8 | ATHAWALE SAHIL SANJAY | 38 | 76 | 3.8 | 79 | 3.95 | 83 | 4.15 | 8 | 13 | 20 | 19.9 | 39 |
| 9 | BADHE ATHARVA VISHAL | 31 | 62 | 3.1 | 69 | 3.45 | 76 | 3.8 | 7 | 10 | 17 | 17.35 | 36 |
| 10 | BAJARE YASHVARDHAN C | 18 | 36 | 1.8 | 62 | 3.1 | 62 | 3.1 | 5 | 5 | 13 | 13 | 9 |
| 11 | BAVISKAR DIPTESH SUDHIR | 21 | 42 | 2.1 | 64 | 3.2 | 62 | 3.1 | 5 | 10 | 13 | 13.4 | 7 |
| 12 | BELE GOVIND DEVIDAS | 26 | 52 | 2.6 | 71 | 3.55 | 78 | 3.9 | 6 | 19 | 16 | 16.05 | 29 |
| 13 | BHOI DATTARAJ ARUN | 21 | 42 | 2.1 | 72 | 3.6 | 74 | 3.7 | 6 | 6 | 15 | 15.4 | 30 |
| 14 | BHOITE VAIBHAV T | 34 | 68 | 3.4 | 71 | 3.55 | 68 | 3.4 | 6 | 4 | 17 | 16.35 | 30 |
| 15 | BONDE BHUVANESH R | 28 | 56 | 2.8 | 68 | 3.4 | 72 | 3.6 | 7 | 17 | 17 | 16.8 | 36 |
| 16 | BORUDE NIKHIL MITTHU | 31 | 62 | 3.1 | 74 | 3.7 | 83 | 4.15 | 8 | 9 | 19 | 18.95 | 35 |
| 17 | BUGUDE UJWAL U | 12 | 24 | 1.2 | 66 | 3.3 | 67 | 3.35 | 7 | AB | 15 | 14.85 | 31 |
| 18 | CHAVHAN SWARAJ SING B | 29 | 58 | 2.9 | 72 | 3.6 | 73 | 3.65 | 8 | 11 | 18 | 18.15 | 33 |
| 19 | DESHMUKH NIRAJ N | 36 | 72 | 3.6 | 88 | 4.4 | 85 | 4.25 | 9 | 23 | 21 | 21.25 | 38 |
| 20 | GAIKWAD SACHIN GANESH | 33 | 66 | 3.3 | 80 | 4 | 86 | 4.3 | 8 | 16 | 20 | 19.6 | 40 |
| 21 | GANGE JAYDEEP RAHUL | 41 | 82 | 4.1 | 93 | 4.65 | 98 | 4.9 | 10 | 28 | 24 | 23.65 | 43 |
| 22 | GHORPADE VISHAL LAXMAN | 23 | 46 | 2.3 | 76 | 3.8 | 85 | 4.25 | 8 | 12 | 18 | 18.35 | 35 |
| 23 | GIRI ANJALI VISHWANATH | 44 | 88 | 4.4 | 100 | 5 | 92 | 4.6 | 8 | 17 | 22 | 22 | 38 |
| 24 | GITE ISHA GANESH | 12 | 24 | 1.2 | 68 | 3.4 | 69 | 3.45 | 6 | 7 | 12 | 14.05 | 10 |
| 25 | GOLE SAHIL JAYWANT | 29 | 58 | 2.9 | 83 | 4.15 | 84 | 4.2 | 9 | 16 | 21 | 20.25 | 42 |
| 26 | HAFIEZA AKBAR ATTAR | 42 | 84 | 4.2 | 100 | 5 | 100 | 5 | 9 | 27 | 24 | 23.2 | 43 |
| 27 | HATKANGANE AKASH D | 38 | 76 | 3.8 | 77 | 3.85 | 80 | 4 | 8 | 11 | 19 | 19.65 | 30 |
| 28 | HUMNE ANURAJ SUNIL | 0 | 0 | 0 | 50 | 2.5 | | 0 | 0 | 5 | 11 | 2.5 | AB |
| 29 | JADHAV TEJAS BHAUSAHEB | 23 | 46 | 2.3 | 55 | 2.75 | 74 | 3.7 | 7 | 9 | 16 | 15.75 | 24 |

V.S. Ponkelle

[Signature]
Head

Department of Electrical Engineering
AJSMS College of Engineering, Pune

| | | | | | | | | | | | | | |
|----|-------------------------|----|----|-----|-----|------|-----|------|---|----|----|-------|----|
| 30 | JADHAV TEJAS SANTOSH | 40 | 80 | 4 | 100 | 5 | 98 | 4.9 | 9 | 22 | 23 | 22.9 | 40 |
| 31 | JADHAV VIVEK PREMNATH | 0 | 0 | 0 | 50 | 2.5 | 50 | 2.5 | 6 | 3 | 12 | 11 | 10 |
| 32 | KADAM ATHARVA ARUN | 25 | 50 | 2.5 | 80 | 4 | 83 | 4.15 | 9 | 15 | 20 | 19.65 | 34 |
| 33 | KADAM YOGESHRI SURESH | 35 | 70 | 3.5 | 95 | 4.75 | 86 | 4.3 | 8 | 11 | 21 | 20.55 | 32 |
| 34 | KAKADE KUNAL BHASKAR | 39 | 78 | 3.9 | 82 | 4.1 | 83 | 4.15 | 9 | 17 | 22 | 21.15 | 36 |
| 35 | KAMBLE ASHUTOSH D | 18 | 36 | 1.8 | 63 | 3.15 | 50 | 2.5 | 6 | 3 | 12 | 13.45 | 22 |
| 36 | KESARKAR ANKITA ANANDA | 29 | 58 | 2.9 | 88 | 4.4 | 89 | 4.45 | 8 | 8 | 20 | 19.75 | 30 |
| 37 | KULKARNI NAKSHATRA N | 30 | 60 | 3 | 100 | 5 | 97 | 4.85 | 9 | 18 | 22 | 21.85 | 43 |
| 38 | KUMBHAR ADITYA PRAKASH | 31 | 62 | 3.1 | 77 | 3.85 | 81 | 4.05 | 7 | 9 | 18 | 18 | 31 |
| 39 | LAMBHATE SAGAR VIJAY | 32 | 64 | 3.2 | 81 | 4.05 | 83 | 4.15 | 7 | 10 | 19 | 18.4 | 30 |
| 40 | LOKHANDE SANJANA VIJAY | 29 | 58 | 2.9 | 82 | 4.1 | 72 | 3.6 | 7 | 9 | 17 | 17.6 | 33 |
| 41 | MAGAR KUNAL RAJENDRA | 8 | 16 | 0.8 | 60 | 3 | 55 | 2.75 | 6 | 11 | 13 | 12.55 | 7 |
| 42 | MANE DIGVIJAY TANAJI | 31 | 62 | 3.1 | 75 | 3.75 | 76 | 3.8 | 8 | 7 | 18 | 18.65 | 34 |
| 43 | MARWADKAR MADHAVI B | 45 | 90 | 4.5 | 90 | 4.5 | 91 | 4.55 | 9 | 21 | 23 | 22.55 | 39 |
| 44 | MHETRE KAJAL BALASO | 36 | 72 | 3.6 | 92 | 4.6 | 94 | 4.7 | 7 | 10 | 20 | 19.9 | 35 |
| 45 | MISAL PRATIK SANJAY | 30 | 60 | 3 | 93 | 4.65 | 92 | 4.6 | 9 | 24 | 22 | 21.25 | 43 |
| 46 | MOHITE SANIKA DINESH | 35 | 70 | 3.5 | 100 | 5 | 98 | 4.9 | 9 | 26 | 23 | 22.4 | 43 |
| 47 | MORE MITESH JAYWANT | 43 | 86 | 4.3 | 100 | 5 | 100 | 5 | 9 | 19 | 24 | 23.3 | 41 |
| 48 | MORE VAIBHAV ANIL | 24 | 48 | 2.4 | 79 | 3.95 | 80 | 4 | 8 | 8 | 19 | 18.35 | 34 |
| 49 | NABEDA CHAITANYA B | 27 | 54 | 2.7 | 77 | 3.85 | 83 | 4.15 | 9 | 10 | 20 | 19.7 | 37 |
| 50 | NAGARKAR DARSHANA M | 41 | 82 | 4.1 | 83 | 4.15 | 87 | 4.35 | 8 | 5 | 21 | 20.6 | 37 |
| 51 | PANDAV DIPTI KESHAV | 26 | 52 | 2.6 | 84 | 4.2 | 74 | 3.7 | 7 | 7 | 17 | 17.5 | 32 |
| 52 | PARDESHI KUNAL KIRAN | 18 | 36 | 1.8 | 75 | 3.75 | 73 | 3.65 | 7 | 8 | 16 | 16.2 | 28 |
| 53 | PATIL ABHISHEK ARVIND | 40 | 80 | 4 | 77 | 3.85 | 80 | 4 | 7 | 17 | 19 | 18.85 | 29 |
| 54 | PATIL ANURAG SANJAY | 34 | 68 | 3.4 | 79 | 3.95 | 82 | 4.1 | 8 | 7 | 20 | 19.45 | 32 |
| 55 | PATIL CHAITANYA UMESH | 41 | 82 | 4.1 | 94 | 4.7 | 95 | 4.75 | 9 | 22 | 23 | 22.55 | 40 |
| 56 | PATIL SURAJ GANESH | 28 | 56 | 2.8 | 65 | 3.25 | 65 | 3.25 | 6 | 11 | 15 | 15.3 | 24 |
| 57 | PAWAR SHREYAS VIJAY | 20 | 40 | 2 | 74 | 3.7 | 72 | 3.6 | 6 | 14 | 15 | 15.3 | 28 |
| 58 | RANE PRATHMESH C | 43 | 86 | 4.3 | 88 | 4.4 | 91 | 4.55 | 9 | 22 | 22 | 22.25 | 39 |
| 59 | RAUT SAURABH ANNA | 35 | 70 | 3.5 | 71 | 3.55 | 69 | 3.45 | 7 | 7 | 17 | 17.5 | 21 |
| 60 | SAPATE ANIRUDDHA UTTAM | 39 | 78 | 3.9 | 68 | 3.4 | 71 | 3.55 | 7 | 8 | 18 | 17.85 | 27 |
| 61 | SAPRE ATHARVA M | 23 | 46 | 2.3 | 67 | 3.35 | 65 | 3.25 | 8 | 6 | 17 | 16.9 | 36 |
| 62 | SARVADE SAHIL RISHIKESH | 19 | 38 | 1.9 | 62 | 3.1 | 73 | 3.65 | 7 | 7 | 16 | 15.65 | 30 |

Head

Department of Electrical Engineering
 ASSMS Collage of Engineering, Pune

| | | | | | | | | | | | | | |
|----|--------------------------|----|----|-----|-----|------|-----|------|---|----|----|-------|----|
| 63 | SAWANT SHIVAM VINAYAK | 7 | 14 | 0.7 | 65 | 3.25 | 55 | 2.75 | 6 | 5 | 13 | 12.7 | 10 |
| 64 | SHINDE RANJITSINH BHARAT | 23 | 46 | 2.3 | 65 | 3.25 | 62 | 3.1 | 5 | 7 | 13 | 13.65 | 9 |
| 65 | SHIRULE KEYUR GOPAL | 44 | 88 | 4.4 | 100 | 5 | 100 | 5 | 9 | 25 | 24 | 23.4 | 43 |
| 66 | SOSHTA KAUSTUBH RAJAN | 34 | 68 | 3.4 | 88 | 4.4 | 88 | 4.4 | 9 | 22 | 22 | 21.2 | 41 |
| 67 | TAMBULE AMAR RAMESH | 25 | 50 | 2.5 | 78 | 3.9 | 58 | 2.9 | 7 | 22 | 17 | 16.3 | 24 |
| 68 | THAKARE JUHI VINOD | 20 | 40 | 2 | 70 | 3.5 | 71 | 3.55 | 6 | 17 | 15 | 15.05 | 27 |
| 69 | THORAT NIKHIL NANASO | 22 | 44 | 2.2 | 61 | 3.05 | 48 | 2.4 | 6 | 10 | 14 | 13.65 | 10 |
| 70 | THORAT SAKSHI RAJENDRA | 28 | 56 | 2.8 | 84 | 4.2 | 89 | 4.45 | 9 | 15 | 21 | 20.45 | 33 |
| 71 | THORAT VAISHNAV N | 0 | 0 | 0 | | 0 | | 0 | | AB | | 0 | |
| 72 | UGALE ADINATH GANESH | 27 | 54 | 2.7 | 85 | 4.25 | 77 | 3.85 | 9 | 14 | 20 | 19.8 | 39 |
| 73 | WAGHALE HARSHAL SANJAY | 26 | 52 | 2.6 | 79 | 3.95 | 83 | 4.15 | 8 | 13 | 19 | 18.7 | 35 |
| 74 | WAGHMARE NUPUR M | 18 | 36 | 1.8 | 60 | 3 | 65 | 3.25 | 7 | 7 | 15 | 15.05 | 22 |
| 75 | WAGHMARE SHEJAL SANJAY | 27 | 54 | 2.7 | 75 | 3.75 | 83 | 4.15 | 7 | 6 | 18 | 17.6 | 28 |
| 76 | WAGHMODE VIVEK GOPAL | 25 | 50 | 2.5 | 65 | 3.25 | 67 | 3.35 | 6 | 9 | 15 | 15.1 | 36 |
| 77 | YADAV RAVI MAHRAJ DIN | 19 | 38 | 1.9 | 90 | 4.5 | 78 | 3.9 | 9 | 9 | 20 | 19.3 | 36 |



Head

Department of Electrical Engineering
AISSMS College of Engineering, Pune

[Handwritten signature]
Prof V.S. Ponkshe



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Electronics & Telecommunication Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

CLASS: T E DIV:A BATCH: C SUBJECT: Microcontroller NAME OF FACULTY: Dr. P P Vast

| Sr. No | Roll No. | Name of the Student | Expt. No.: 1 | | | | | SS | Expt. No.: 2 | | | | | SS | Expt. No.: 3 | | | | | SS | Expt. No.: 4 | | | | | SS | Expt. No.: 5 | | | | | |
|--------|----------|------------------------|--------------|----|---|----|--------------|----|--------------|----|--------------|---|-------------|----|--------------|--------------|--------------|---|-------------|----|--------------|--------------|---|---|-------------|--------------|--------------|----|---|---|--------------|--------------|
| | | | Date: | | | | Total Marks | | Date: | | | | Total Marks | | Date: | | | | Total Marks | | Date: | | | | Total Marks | | Date: | | | | | |
| | | | R | PP | U | | | | R | PP | U | | | | R | PP | U | | | | R | PP | U | | | | R | PP | U | | | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | SS |
| 1 | 20ET002 | ATHARVA VIJAY SHELKE | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 3 | 3 | 7 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 2 | 21ET302 | BANDARKAR VEDANT | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 3 | 20ET006 | BORAWAKE SOHAM | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 4 | 20ET008 | CHANDANE NUPUR SUNIL | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 5 | 20ET009 | CHOUDHARY PRAVEEN | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 4 | 4 | 10 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 6 | 20ET010 | CHOUGALE SIDDHANT | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 7 | 20ET012 | DALAVE VAISHNAVI | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 8 | 20ET014 | DESHPANDE VISHAL VIJAY | — | — | — | — | ☆ | — | — | — | ☆ | — | — | — | — | ☆ | — | — | — | — | ☆ | — | — | — | — | ☆ | — | — | — | — | ☆ | |
| 9 | 20ET019 | GHADGE SOHAN SUNIL | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 5 | 5 | 7 | ☆ | 1 | 5 | 5 | 7 | ☆ |
| 10 | 20ET020 | GODASE OMKAR SANJAY | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ |
| 11 | 20ET021 | GOSWAMI ANIRUDDHA | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ |
| 12 | 20ET023 | GUJAR MAITHILI RAJESH | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 13 | 20ET024 | HAPSE ATHARV SHASHANK | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 14 | 20ET030 | JANJAL RUSHITA | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ |
| 15 | 21ET304 | KADAM PRITI TUKARAM | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 16 | 20ET032 | KADU VISHWAJA MANISH | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | ☆ | 8 | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ | 2 | 3 | 3 | 8 | ☆ |
| 17 | 20ET034 | KAWALE ARNAV HEMANT | — | — | — | — | ☆ | — | — | — | ☆ | — | — | — | — | ☆ | — | — | — | — | ☆ | — | — | — | — | ☆ | — | — | — | — | ☆ | |
| 18 | 20ET035 | KAZI SAIFODDIN | 2 | 2 | 2 | 6 | ☆ | 2 | 2 | 2 | ☆ | 6 | 2 | 2 | 2 | 6 | ☆ | 2 | 2 | 2 | 6 | ☆ | 2 | 2 | 2 | 6 | ☆ | 2 | 2 | 2 | 6 | ☆ |
| 19 | 21ET305 | MAHAJAN OMKAR | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 2 | 2 | 2 | 6 | ☆ | 2 | 2 | 2 | 6 | ☆ | 2 | 2 | 2 | 6 | ☆ |
| 20 | 20ET040 | MORE DEEPAJ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | ☆ | 5 | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ | 1 | 2 | 2 | 5 | ☆ |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Dr. P. P. Vast

HOD Signature:



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Electronics & Telecommunication Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

CLASS: T E

DIV:A

BATCH: C

SUBJECT: Microcontroller

NAME OF FACULTY: Dr. P P Vast

| Sr. No | Roll No. | Name of the Student | Expt. No.: 6 Date: | | | | | SS | Expt. No.: 7 Date: | | | | | SS | Expt. No.: 8 Date: | | | | | SS | Expt. No.: Revision Date: Revision | | | | | SS | Expt. No.: Revision Date: Revision | | | | | SS |
|--------|----------|------------------------|-----------------------|----|---|-------------|--------------------|----|-----------------------|---|-------------|--------------------|----|----|-----------------------|-------------|--------------------|----|---|----|---------------------------------------|--------------------|----|---|-------------|----|---------------------------------------|--|--|--|----|----|
| | | | R | PP | U | Total Marks | R | | PP | U | Total Marks | R | PP | | U | Total Marks | R | PP | U | | Total Marks | R | PP | U | Total Marks | | | | | | | |
| | | | 2 | 4 | 4 | 10 | 2 | | 4 | 4 | 10 | 2 | 4 | | 4 | 10 | 2 | 4 | 4 | | 10 | 2 | 4 | 4 | 10 | | | | | | | |
| 1 | 20ET002 | ATHARVA VIJAY SHELKE | 2 | 3 | 3 | 8 | A | 2 | 3 | 3 | 8 | A | 2 | 3 | 3 | 8 | A | | | | | A | | | | | | | | | 57 | |
| 2 | 21ET302 | BANDARKAR VEDANT | 2 | 3 | 3 | 8 | MB | 2 | 3 | 3 | 8 | MB | 2 | 3 | 3 | 8 | MB | | | | | MB | | | | | | | | | 64 | |
| 3 | 20ET006 | BORAWAKE SOHAM | 2 | 3 | 3 | 8 | Sgt | 2 | 3 | 3 | 8 | Sgt | 2 | 3 | 3 | 8 | Sgt | | | | | Sgt | | | | | | | | | 55 | |
| 4 | 20ET008 | CHANDANE NUPUR SUNIL | 2 | 3 | 3 | 8 | Kup | 2 | 3 | 3 | 8 | Kup | 2 | 3 | 3 | 8 | Kup | | | | | Kup | | | | | | | | | 55 | |
| 5 | 20ET009 | CHOUDHARY PRAVEEN | 2 | 3 | 3 | 8 | Pron | 2 | 3 | 3 | 8 | Pron | 2 | 3 | 3 | 8 | Pron | | | | | Pron | | | | | | | | | 66 | |
| 6 | 20ET010 | CHOUGALE SIDDHANT | 2 | 3 | 3 | 8 | Jit | 2 | 3 | 3 | 8 | Jit | 2 | 3 | 3 | 8 | Jit | | | | | Jit | | | | | | | | | 55 | |
| 7 | 20ET012 | DALAVE VAISHNAVI | 2 | 3 | 3 | 8 | Dit | 2 | 3 | 3 | 8 | Dit | 2 | 3 | 3 | 8 | Dit | | | | | Dit | | | | | | | | | 64 | |
| 8 | 20ET014 | DESHPANDE VISHAL VIJAY | | | | | SG | | | | | SG | | | | | SG | | | | | SG | | | | | | | | | | |
| 9 | 20ET019 | GHADGE SOHAN SUNIL | 1 | 2 | 2 | 5 | SG | 1 | 2 | 2 | 5 | SG | 1 | 2 | 2 | 5 | SG | | | | | SG | | | | | | | | | 42 | |
| 10 | 20ET020 | GODASE OMKAR SANJAY | 1 | 2 | 2 | 5 | Ch | 1 | 2 | 2 | 5 | Ch | 1 | 2 | 2 | 5 | Ch | | | | | Ch | | | | | | | | | 40 | |
| 11 | 20ET021 | GOSWAMI ANIRUDDHA | 1 | 2 | 2 | 5 | R | 1 | 2 | 2 | 5 | R | 1 | 2 | 2 | 5 | R | | | | | R | | | | | | | | | 40 | |
| 12 | 20ET023 | GUJAR MAITHILI RAJESH | 2 | 3 | 3 | 8 | May | 2 | 3 | 3 | 8 | May | 2 | 3 | 3 | 8 | May | | | | | May | | | | | | | | | 64 | |
| 13 | 20ET024 | HAPSE ATHARV SHASHANK | 2 | 3 | 3 | 8 | ABH | 2 | 3 | 3 | 8 | ABH | 2 | 3 | 3 | 8 | ABH | | | | | ABH | | | | | | | | | 64 | |
| 14 | 20ET030 | JANJAL RUSHITA | 1 | 2 | 2 | 5 | Rushita | 1 | 2 | 2 | 5 | Rushita | 1 | 2 | 2 | 5 | Rushita | | | | | Rushita | | | | | | | | | 40 | |
| 15 | 21ET304 | KADAM PRITI TUKARAM | 2 | 3 | 3 | 8 | Padam | 2 | 3 | 3 | 8 | Padam | 2 | 3 | 3 | 8 | Padam | | | | | Padam | | | | | | | | | 64 | |
| 16 | 20ET032 | KADU VISHWAJA MANISH | 2 | 3 | 3 | 8 | Vakad | 2 | 3 | 3 | 8 | Vakad | 2 | 3 | 3 | 8 | Vakad | | | | | Vakad | | | | | | | | | 64 | |
| 17 | 20ET034 | KAWALE ARNAV HEMANT | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 20ET035 | KAZI SAIFODDIN | 2 | 3 | 3 | 8 | Kaz | 2 | 3 | 3 | 8 | Kaz | 2 | 3 | 3 | 8 | Kaz | | | | | Kaz | | | | | | | | | 54 | |
| 19 | 21ET305 | MAHAJAN OMKAR | 2 | 3 | 3 | 8 | Omka | 2 | 3 | 3 | 8 | Omka | 2 | 3 | 3 | 8 | Omka | | | | | Omka | | | | | | | | | 51 | |
| 20 | 20ET040 | MORE DEEPAJ | 1 | 2 | 2 | 5 | Dep | 1 | 2 | 2 | 5 | Dep | 1 | 2 | 2 | 5 | Dep | | | | | Dep | | | | | | | | | 40 | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04)

U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature:

Dr. P. P. Vast

HOD Signature:



AISSMS

COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

Continuous Assessment Sheet

ACADEMIC YEAR- 2022-2023, Term I

Class: SE

Batch: C

Subject: Electrical Circuits

Name of Faculty: V S Navale

| Sr. No | Roll No. | Name of the Student | Marks till last week | Expt No. Date: | | | | | Expt No. Date: | | | | | Total Marks |
|--------|----------|--------------------------|----------------------|-----------------|-----------------------------|------------------|-------|----|-----------------|-----------------------------|------------------|-------|----|-------------|
| | | | | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | |
| 1 | ET-21054 | KULKARNI VASUDHA DILIP | | 03 | 06 | 06 | 15 | 03 | 03 | 06 | 06 | 15 | 03 | 30 |
| 2 | ET-21071 | MAGDUM YASHOVARDHAN R | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 46 |
| 3 | ET-21056 | MAHAPADI JANVI SANJAY | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 47 |
| 4 | ET-21035 | MANE KEDAR PRAMOD | | 03 | 06 | 05 | 14 | 03 | 03 | 06 | 05 | 14 | 03 | 28 |
| 5 | ET-21022 | MORE ROSHANI SANJAY | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 46 |
| 6 | ET-21024 | MURKUTE SAE PURUSHOTTAM | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 46 |
| 7 | ET-21026 | PALASKAR JAGDISH G | | 04 | 08 | 08 | 20 | 04 | 04 | 08 | 08 | 20 | 04 | 40 |
| 8 | ET-21060 | PATEL JAY PRAKASHI | | 04 | 08 | 08 | 20 | 04 | 04 | 08 | 08 | 20 | 04 | 40 |
| 9 | ET-21041 | PATIL ANIKET GOVINDRAO | | 04 | 08 | 08 | 20 | 04 | 04 | 08 | 08 | 20 | 04 | 40 |
| 10 | ET-21055 | PATIL VAISHNAVI VISHWAS | | 04 | 08 | 08 | 20 | 04 | 04 | 08 | 08 | 20 | 04 | 40 |
| 11 | ET-21014 | PAWAR SAKSHI VIKAS | | 03 | 07 | 08 | 18 | 03 | 03 | 07 | 08 | 18 | 03 | 37 |
| 12 | ET-21008 | PAWAR SHEETAL SHANKAR | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 46 |
| 13 | ET-21067 | PETKAR SRUSHTI ASHOK | | 05 | 08 | 08 | 21 | 05 | 05 | 08 | 08 | 21 | 05 | 42 |
| 14 | ET-21021 | PRANAV PRAVIN BIRADE | | 02 | 06 | 06 | 14 | 02 | 02 | 06 | 06 | 14 | 02 | 28 |
| 15 | ET-21075 | PUJARE JANHAVI ANIRUDDHA | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 46 |
| 16 | ET-21051 | RAYKAR GAYATRI GANESH | | 04 | 08 | 08 | 20 | 04 | 04 | 08 | 08 | 20 | 04 | 40 |
| 17 | ET-21048 | REUBEN ROBERT ANTHONY | | 03 | 06 | 06 | 15 | 03 | 03 | 06 | 06 | 15 | 03 | 30 |
| 18 | ET-21034 | SAWALE VAISHNAVI B | | 05 | 09 | 09 | 23 | 05 | 05 | 09 | 09 | 23 | 05 | 46 |
| 19 | ET-21066 | SHAIKH MOHAMMAD SAHIL R | | 04 | 08 | 08 | 20 | 04 | 04 | 08 | 08 | 20 | 04 | 40 |
| 20 | ET-21009 | VHANKHANDE RITESH RAMESH | | 05 | 08 | 08 | 19 | 05 | 05 | 08 | 08 | 19 | 05 | 38 |
| 21 | ET-21062 | WAGHAVKAR ASHUTOSH SUJIT | | 05 | 09 | 09 | 20 | 05 | 05 | 09 | 09 | 23 | 05 | 43 |
| 22 | ET-21042 | WAGHIMARE YASH D | | 02 | 06 | 05 | 13 | 02 | 02 | 06 | 05 | 13 | 02 | 28 |

Faculty Name & Signature

HOD Signature

Attendance : Timekeeping

Experimental write ups: Originality & Presentation Skills

Performance: Individual Contribution & Team work

SS : Students Signature

Head

Department of Electronics & Telecommunication
AISSMS'S COE Pune-411001.



AISSMS

COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

Continuous Assessment Sheet

ACADEMIC YEAR- 2022-2023, Term I

Class: SE

Batch: C

Subject: EC

Name of Faculty: V S Navale

| Sr. No | Roll No. | Name of the Student | Marks till last week | Expt No. Date: | | | | | Expt No. Date: | | | | | Total Marks |
|--------|----------|--------------------------|----------------------|-----------------|-----------------------------|------------------|-------|---------|-----------------|-----------------------------|------------------|-------|---------|-------------|
| | | | | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | |
| 1 | ET-21054 | KULKARNI YASUDHA DILIP | | 03 | 06 | 06 | 15 | (Vijay) | 03 | 07 | 07 | 17 | (Vijay) | 62 |
| 2 | ET-21071 | MAGDUM YASHOVARDHAN R | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 92 |
| 3 | ET-21056 | MAHAPADI JANVI SANJAY | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 93 |
| 4 | ET-21035 | MANE KEDAR PRAMOD | | 03 | 06 | 05 | 14 | (Gan) | 03 | 06 | 05 | 14 | (Gan) | 56 |
| 5 | ET-21022 | MORE ROSHANI SANJAY | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 92 |
| 6 | ET-21024 | MURKUTE SAE PURUSHOTTAM | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 92 |
| 7 | ET-21026 | PALASKAR JAGDISH G | | 04 | 08 | 08 | 20 | (Gan) | 04 | 08 | 08 | 20 | (Gan) | 80 |
| 8 | ET-21060 | PATEL JAY PRAKASH | | 04 | 08 | 08 | 20 | (Gan) | 04 | 08 | 08 | 20 | (Gan) | 80 |
| 9 | ET-21041 | PATIL ANIKET GOVINDRAO | | 04 | 08 | 08 | 20 | (Gan) | 04 | 08 | 08 | 20 | (Gan) | 80 |
| 10 | ET-21055 | PATIL VAISHNAVI VISHWAS | | 04 | 08 | 08 | 20 | (Gan) | 04 | 08 | 08 | 20 | (Gan) | 80 |
| 11 | ET-21014 | PAWAR SAKSHI VIKAS | | 03 | 07 | 08 | 18 | (Gan) | 03 | 07 | 08 | 18 | (Gan) | 73 |
| 12 | ET-21008 | PAWAR SHEETAL SHANKAR | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 92 |
| 13 | ET-21067 | PETKAR SRUSHTI ASHOK | | 05 | 08 | 08 | 21 | (Gan) | 05 | 08 | 08 | 21 | (Gan) | 84 |
| 14 | ET-21021 | PRANAV PRAVIN BIRADE | | 05 | 06 | 06 | 17 | (Gan) | 05 | 06 | 06 | 17 | (Gan) | 62 |
| 15 | ET-21075 | PUJARE JANHAVI ANIRUDDHA | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 92 |
| 16 | ET-21051 | RAYKAR GAYATRI GANESH | | 04 | 08 | 08 | 20 | (Gan) | 04 | 08 | 08 | 20 | (Gan) | 80 |
| 17 | ET-21048 | REUBEN ROBERT ANTHONY | | 03 | 06 | 06 | 15 | (Gan) | 03 | 06 | 06 | 15 | (Gan) | 63 |
| 18 | ET-21034 | SAWALE VAISHNAVI B | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 92 |
| 19 | ET-21066 | SHAIKH MOHAMMAD SAHIL R | | 04 | 08 | 08 | 20 | (Gan) | 04 | 08 | 08 | 20 | (Gan) | 80 |
| 20 | ET-21009 | VIANKHANDE RITESH RAMESH | | 03 | 08 | 08 | 19 | (Gan) | 03 | 08 | 08 | 19 | (Gan) | 76 |
| 21 | ET-21062 | WAGHAVKAR ASHUTOSH SUJIT | | 05 | 09 | 09 | 23 | (Gan) | 05 | 09 | 09 | 23 | (Gan) | 89 |
| 22 | ET-21042 | WAGHARE YASH D | | 02 | 06 | 05 | 13 | (Gan) | 02 | 06 | 05 | 13 | (Gan) | 56 |

Faculty Name & Signature

HOD Signature

Attendance : Timekeeping

Experimental write ups: Originality & Presentation Skills

Performance: Individual Contribution & Team work

SS : Students Signature

Department of Electronics & Telecommunication

AISSMS's COE PUNE-411061.



AISSMS

COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

Continuous Assessment Sheet

ACADEMIC YEAR- 2022-2023, Term I

Class: SE

Batch: C

Subject: EC

Name of Faculty: V S Navale

| Sr. No | Roll No. | Name of the Student | Marks till last week | Expt No. Date: | | | | | Expt No. Date: | | | | | Total Marks |
|--------|----------|--------------------------|----------------------|-----------------|-----------------------------|------------------|-------|---------------|-----------------|-----------------------------|------------------|-------|---------------|-------------|
| | | | | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | |
| 1 | ET-21054 | KULKARNI VASUDHA DILIP | | 03 | 07 | 06 | 16 | (V.S. Navale) | 05 | 08 | 08 | 21 | (V.S. Navale) | 99 |
| 2 | ET-21071 | MAGDUM YASHOVARDHAN R | | 05 | 09 | 09 | 23 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 138 |
| 3 | ET-21056 | MAHAPADI JANVI SANJAY | | 05 | 09 | 09 | 23 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 139 |
| 4 | ET-21035 | MANE KEDAR PRAMOD | | 03 | 06 | 05 | 14 | (V.S. Navale) | 05 | 06 | 06 | 17 | (V.S. Navale) | 86 |
| 5 | ET-21022 | MORE ROSHANI SANJAY | | 05 | 09 | 09 | 23 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 138 |
| 6 | ET-21024 | MURKUTE SAAE PURUSHOTTAM | | 05 | 09 | 09 | 23 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 138 |
| 7 | ET-21026 | PALASKAR JAGDISH G | | 08 | 08 | 08 | 19 | (V.S. Navale) | 05 | 08 | 08 | 21 | (V.S. Navale) | 120 |
| 8 | ET-21060 | PATEL JAY PRAKASH | | 05 | 08 | 09 | 20 | (V.S. Navale) | 05 | 08 | 09 | 22 | (V.S. Navale) | 122 |
| 9 | ET-21041 | PATIL ANIKET GOVINDRAO | | 04 | 09 | 09 | 22 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 124 |
| 10 | ET-21055 | PATIL VAISHNAVI VISHWAS | | 04 | 08 | 08 | 20 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 123 |
| 11 | ET-21014 | PAWAR SAKSHI VIKAS | | 05 | 08 | 08 | 21 | (V.S. Navale) | 05 | 08 | 08 | 21 | (V.S. Navale) | 115 |
| 12 | ET-21008 | PAWAR SHEETAL SHANKAR | | 05 | 08 | 08 | 21 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 136 |
| 13 | ET-21067 | PETKAR SRUSHTI ASHOK | | 05 | 08 | 09 | 22 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 129 |
| 14 | ET-21021 | PRANAV PRAVIN BIRADE | | 04 | 08 | 07 | 19 | (V.S. Navale) | 04 | 08 | 08 | 20 | (V.S. Navale) | 122 |
| 15 | ET-21075 | PUJARE JANHAVI ANIRUDDHA | | 04 | 08 | 09 | 21 | (V.S. Navale) | 04 | 08 | 09 | 21 | (V.S. Navale) | 134 |
| 16 | ET-21051 | RAYKAR GAYATRI GANESH | | 05 | 08 | 09 | 22 | (V.S. Navale) | 04 | 07 | 07 | 19 | (V.S. Navale) | 121 |
| 17 | ET-21048 | REUBEN ROBERT ANTHONY | | 04 | 07 | 07 | 18 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 104 |
| 18 | ET-21034 | SAWALE VAISHNAVI B | | 05 | 09 | 09 | 23 | (V.S. Navale) | 05 | 08 | 08 | 21 | (V.S. Navale) | 136 |
| 19 | ET-21066 | SHAIKH MOHAMMAD SAHIL R | | 05 | 08 | 09 | 22 | (V.S. Navale) | 05 | 08 | 09 | 22 | (V.S. Navale) | 124 |
| 20 | ET-21009 | VHANKHANDE RITESH RAMESH | | 05 | 07 | 08 | 20 | (V.S. Navale) | 05 | 07 | 08 | 20 | (V.S. Navale) | 116 |
| 21 | ET-21062 | WAGHAVKAR ASHUTOSH SUJIT | | 05 | 09 | 09 | 23 | (V.S. Navale) | 05 | 09 | 09 | 23 | (V.S. Navale) | 135 |
| 22 | ET-21042 | WAGHMARE YASH D | | 03 | 07 | 07 | 17 | (V.S. Navale) | 03 | 07 | 07 | 17 | (V.S. Navale) | 90 |

Faculty Name & Signature

HOD Signature

Attendance : Timekeeping

Experimental write ups: Originality & Presentation Skills

Performance: Individual Contribution & Team work

SS : Students Signature

Head

Department of Electronics & Telecommunication
AISSMS COE PUNE-411001.



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COLLEGE OF ENGINEERING

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Accredited by UAC with "A++" Grade



Department of Electronics and Telecommunication Engineering

Continuous Assessment Sheet

ACADEMIC YEAR- 2022-2023, Term I

Class: SE

Batch: C

Subject: EC

Name of Faculty: V S Navale

| Sr. No | Roll No. | Name of the Student | Marks till last week | Expt No. Date: | | | | | Expt No. Date: | | | | | Total Marks |
|--------|----------|--------------------------|----------------------|-----------------|-----------------------------|------------------|-------|--------|-----------------|-----------------------------|------------------|-------|--------|-------------|
| | | | | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | |
| 1 | ET-21054 | KULKARNI VASUDHA DILIP | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 145 |
| 2 | ET-21071 | MAGDUM YASHOVARDHAN R | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 184 |
| 3 | ET-21056 | MAHAPADI JANVI SANJAY | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 185 |
| 4 | ET-21035 | MANE KEDAR PRAMOD | | 04 | 08 | 08 | 20 | Navale | 04 | 08 | 08 | 20 | Navale | 126 |
| 5 | ET-21022 | MORE ROSHANI SANJAY | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 184 |
| 6 | ET-21024 | MURKUTE SAE PURUSHOTTAM | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 184 |
| 7 | ET-21026 | PALASKAR JAGDISH G | | 05 | 08 | 08 | 21 | Navale | 05 | 08 | 08 | 21 | Navale | 162 |
| 8 | ET-21060 | PATEL JAY PRAKASH | | 05 | 07 | 08 | 20 | Navale | 07 | 07 | 08 | 22 | Navale | 164 |
| 9 | ET-21041 | PATIL ANIKET GOVINDRAO | | 05 | 08 | 09 | 22 | Navale | 05 | 08 | 09 | 22 | Navale | 146 |
| 10 | ET-21055 | PATIL VAISHNAVI VISHWAS | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 184 |
| 11 | ET-21014 | PAWAR SAKSHI VIKAS | | 05 | 08 | 09 | 22 | Navale | 05 | 08 | 09 | 22 | Navale | 184 |
| 12 | ET-21008 | PAWAR SHEETAL SHANKAR | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 184 |
| 13 | ET-21067 | PETKAR SRUSHTI ASHOK | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 184 |
| 14 | ET-21021 | PRANAV PRAVIN BIRADE | | 04 | 08 | 08 | 20 | Navale | 05 | 08 | 08 | 21 | Navale | 164 |
| 15 | ET-21075 | PUJARE JANHAVI ANIRUDDHA | | 05 | 08 | 09 | 22 | Navale | 05 | 08 | 09 | 22 | Navale | 165 |
| 16 | ET-21051 | RAYKAR GAYATRI GANESH | | 05 | 07 | 09 | 19 | Navale | 05 | 07 | 09 | 21 | Navale | 144 |
| 17 | ET-21048 | REUBEN ROBERT ANTHONY | | 05 | 08 | 07 | 19 | Navale | 05 | 06 | 07 | 18 | Navale | 173 |
| 18 | ET-21034 | SAWALE VAISHNAVI B | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 170 |
| 19 | ET-21066 | SHAIKH MOHAMMAD SAHIL R | | 05 | 07 | 07 | 19 | Navale | 05 | 07 | 07 | 19 | Navale | 154 |
| 20 | ET-21009 | VHANKHANDE RITESH RAMESH | | 05 | 07 | 06 | 18 | Navale | 05 | 07 | 06 | 18 | Navale | 152 |
| 21 | ET-21062 | WAGHAVKAR ASHUTOSH SUJIT | | 05 | 09 | 09 | 23 | Navale | 05 | 09 | 09 | 23 | Navale | 181 |
| 22 | ET-21042 | WAGHARE YASH D | | 05 | 06 | 06 | 17 | Navale | 05 | 06 | 07 | 18 | Navale | 125 |

Faculty Name & Signature

HOD Signature

Attendance : Timekeeping

Experimental write ups: Originality & Presentation Skills

Performance: Individual Contribution & Team work

SS : Students Signature

Head

Department of Electronics & Telecommunication

AISSMS COE PUNE-411001.



AISSMS

COLLEGE OF ENGINEERING



Department of Electronics and Telecommunication Engineering

Continuous Assessment Sheet

ACADEMIC YEAR- 2022-2023, Term I

Class: SE

Batch: C

Subject: EC

Name of Faculty: V S Navale

| Sr. No | Roll No. | Name of the Student | Marks till last week | Expt No. Date: | | | | | Expt No. Date: | | | | | Total Marks |
|--------|----------|--------------------------|----------------------|-----------------|-----------------------------|------------------|-------|----|-----------------|-----------------------------|------------------|-------|----|-------------|
| | | | | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | Attendance (05) | Experimental write ups (10) | Performance (10) | Total | SS | |
| 1 | ET-21054 | KULKARNI VASUDHA DILIP | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 191 |
| 2 | ET-21071 | MAGDUM YASHOVARDHAN R | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 230 |
| 3 | ET-21056 | MAHAPADI JANVI SANJAY | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 231 |
| 4 | ET-21035 | MANE KEDAR PRAMOD | | 05 | 06 | 07 | 18 | 16 | 05 | 06 | 07 | 18 | 16 | 162 |
| 5 | ET-21022 | MORE ROSHANI SANJAY | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 230 |
| 6 | ET-21024 | MURKUTE SAE PURUSHOTTAM | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 230 |
| 7 | ET-21026 | PALASKAR JAGDISH G | | 05 | 08 | 09 | 22 | 18 | 05 | 08 | 09 | 22 | 18 | 286 |
| 8 | ET-21060 | PATEL JAY PRAKASH | | 05 | 08 | 08 | 21 | 17 | 05 | 08 | 09 | 22 | 18 | 207 |
| 9 | ET-21041 | PATIL ANIKET GOVINDRAO | | 05 | 08 | 08 | 21 | 17 | 05 | 08 | 09 | 22 | 18 | 189 |
| 10 | ET-21055 | PATIL VAISHNAVI VISHWAS | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 215 |
| 11 | ET-21014 | PAWAR SAKSHI VIKAS | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 216 |
| 12 | ET-21008 | PAWAR SHEETAL SHANKAR | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 226 |
| 13 | ET-21067 | PETKAR SRUSHITI ASHOK | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 219 |
| 14 | ET-21021 | PRANAV PRAVIN BIRADE | | 05 | 07 | 08 | 20 | 15 | 05 | 07 | 08 | 20 | 15 | 204 |
| 15 | ET-21075 | PUJARE JANHAVI ANIRUDDHA | | 05 | 09 | 08 | 22 | 18 | 05 | 09 | 08 | 22 | 18 | 209 |
| 16 | ET-21051 | RAYKAR GAYATRI GANESH | | 05 | 09 | 08 | 22 | 18 | 05 | 09 | 08 | 22 | 18 | 188 |
| 17 | ET-21048 | REUBEN ROBERT ANTHONY | | 05 | 07 | 07 | 19 | 14 | 05 | 07 | 07 | 19 | 14 | 211 |
| 18 | ET-21034 | SAWALE VAISHNAVI B | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 216 |
| 19 | ET-21066 | SHAIKH MOHAMMAD SAHIL R | | 05 | 08 | 08 | 21 | 17 | 05 | 08 | 08 | 21 | 17 | 196 |
| 20 | ET-21009 | VHANKHANDE RITESH RAMESH | | 05 | 07 | 09 | 20 | 16 | 05 | 07 | 09 | 21 | 17 | 193 |
| 21 | ET-21062 | WAGHAVKAR ASHUTOSH SUJIT | | 05 | 09 | 09 | 23 | 19 | 05 | 09 | 09 | 23 | 19 | 227 |
| 22 | ET-21042 | WAGHMARE YASH D | | 05 | 07 | 08 | 20 | 15 | 05 | 07 | 08 | 20 | 15 | 165 |

Faculty Name & Signature

HOD Signature

Attendance : Timekeeping

Experimental write ups: Originality & Presentation Skills

Performance: Individual Contribution & Team work

SS : Students Signature

Head

Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.



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COLLEGE OF ENGINEERING

ज्ञानम् सफलजनहिताय
Accredited by NAAC with "A+" Grade



TKY CAS JE/SH
2022-23 Term-I

TE

Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: TE | | DIV: A | BATCH: B | SUBJECT: Numerical and Statistical Methods | | | | | | | | | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | | | | |
|-----------|----------|---------------------------|---------------------------------|--|---|-------------|----|---------------------------------|----|---|-------------|----|--------------------------------|---------------------------------|---|-------------|----|---------------------------------|----|---|-------------|----|--------------------------------|----|---|-------------|----|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 1 Date: 19/7/2022 | | | | | Expt. No.: 2 Date: 25/7/2022 | | | | | Expt. No.: 3 Date: 8/8/2022 | | | | | Expt. No.: 4 Date: 29/8/2022 | | | | | Expt. No.: 5 Date: 5/9/2022 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 20MS020 | PALVE VEDANT CHANDRAKANT | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | |
| 2 | 20MS021 | PATEL YASH JAYANT | 2 | 3 | 3 | 8 | | 2 | 2 | 3 | 7 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | |
| 3 | 20MS022 | PATIL PARTH DINKARRAO | 1 | 3 | 3 | 7 | | 1 | 3 | 3 | 7 | | 2 | 3 | 4 | 9 | | 2 | 3 | 4 | 9 | | 2 | 3 | 4 | 9 | |
| 4 | 20MS023 | PATIL SIDDHESH MAHESH | 1 | 4 | 4 | 9 | | 2 | 4 | 2 | 8 | | 2 | 3 | 2 | 7 | | 2 | 4 | 3 | 9 | | 2 | 4 | 2 | 8 | |
| 5 | 20MS024 | PATIL YASH DIPAK | 1 | 3 | 3 | 7 | | 2 | 4 | 3 | 9 | | 2 | 3 | 2 | 7 | | 2 | 3 | 4 | 9 | | 2 | 2 | 4 | 8 | |
| 6 | 20MS025 | PIMPLE MALHAR AJIT | 1 | 4 | 3 | 8 | | 2 | 3 | 3 | 8 | | 2 | 2 | 3 | 7 | | 1 | 2 | 3 | 6 | | 2 | 2 | 4 | 8 | |
| 7 | 20MS026 | SHINDE YOGADA SANTOSH | 1 | 3 | 3 | 7 | | 2 | 2 | 3 | 7 | | 1 | 2 | 2 | 5 | | 0 | 2 | 3 | 5 | | 1 | 2 | 2 | 5 | |
| 8 | 20MS027 | SHIRODKAR ATHARWA SUHAS | 1 | 3 | 3 | 7 | | 2 | 2 | 3 | 7 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 2 | 4 | 8 | |
| 9 | 20MS028 | SONAWANI PARTH SANJAY | 1 | 3 | 4 | 8 | | 2 | 3 | 3 | 8 | | 0 | 3 | 3 | 6 | | 2 | 4 | 3 | 9 | | 2 | 3 | 4 | 9 | |
| 10 | 20MS029 | URKUDE NIRANJAN JITENDRA | 1 | 3 | 2 | 6 | | 2 | 2 | 4 | 8 | | 2 | 4 | 3 | 9 | | 2 | 3 | 4 | 9 | | 1 | 3 | 4 | 8 | |
| 11 | 20MS030 | UTTEKAR ARYESH DHIRAJ | 2 | 4 | 3 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | | 2 | 2 | 3 | 7 | | 2 | 3 | 3 | 8 | |
| 12 | 20MS031 | WELDE PARTH JAGDISH | 2 | 3 | 3 | 8 | | 1 | 3 | 3 | 7 | | 2 | 2 | 2 | 6 | | 2 | 3 | 2 | 7 | | 2 | 3 | 3 | 8 | |
| 13 | 20MS032 | YEVATEKAR YASH MUKUND | 1 | 3 | 3 | 7 | | 2 | 2 | 3 | 7 | | 2 | 2 | 2 | 6 | | 2 | 4 | 3 | 9 | | 2 | 3 | 3 | 8 | |
| 14 | 21MS301 | BHOI BHAVESH SUNIL | 1 | 4 | 2 | 7 | | 2 | 4 | 3 | 9 | | 2 | 2 | 2 | 6 | | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | |
| 15 | 21MS302 | CHAUDHARI DEVENDRA ANIL | 1 | 4 | 3 | 8 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | |
| 16 | 21MS303 | CHAUDHARI MOHAN DATTATRAY | 0 | 3 | 2 | 5 | | 2 | 2 | 3 | 7 | | 2 | 4 | 2 | 8 | | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | |
| 17 | 21MS304 | CHAUDHARI ROHIT PRAMOD | 1 | 4 | 3 | 8 | | 1 | 3 | 3 | 7 | | 2 | 3 | 3 | 8 | | 2 | 4 | 4 | 10 | | 2 | 4 | 3 | 9 | |
| 18 | 21MS305 | CHAUDHARI SHALEM NARESH | 1 | 3 | 2 | 6 | | 1 | 2 | 3 | 7 | | 1 | 3 | 2 | 6 | | 2 | 4 | 3 | 9 | | 2 | 3 | 3 | 8 | |
| 19 | 21MS306 | CHOURE RAMHARI ASARAM | 1 | 3 | 3 | 7 | | 2 | 2 | 3 | 7 | | 1 | 2 | 2 | 5 | | 2 | 3 | 3 | 8 | | 2 | 3 | 2 | 7 | |
| 20 | 21MS307 | DALE PRASHANT DILIPRAO | 1 | 3 | 3 | 7 | | 2 | 2 | 5 | | 1 | 2 | 2 | 5 | | 2 | 3 | 3 | 8 | | 2 | 2 | 4 | 8 | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature:

HoD Signature:



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: TE | | DIV: A | | BATCH: B | | SUBJECT: Numerical and Statistical Methods | | | | | | | | | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | | |
|-----------|----------|---------------------------|-----------------|----------|---|--|----|-----------------|----|---|-------------|----|-----------------|----|---|---------------------------------|----|------------------|----|---|-------------|----|------------------|----|---|-------------|----|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 6 | | | | | Expt. No.: 7 | | | | | Expt. No.: 8 | | | | | Expt. No.: 9 | | | | | Expt. No.: 10 | | | | |
| | | | Date: 19/9/2022 | | | | | Date: 26/9/2022 | | | | | Date: 26/9/2022 | | | | | Date: 17/10/2022 | | | | | Date: 31/10/2022 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| | 20MS020 | PALVE VEDANT CHANDRAKANT | 2 | 2 | 2 | 5 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 2 | 20MS021 | PATEL YASH JAYANT | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | | 1 | 2 | 2 | 5 | | 0 | 0 | 0 | 0 | |
| 3 | 20MS022 | PATIL PARTH DINKARRAO | 2 | 4 | 3 | 9 | | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | |
| 4 | 20MS023 | PATIL SIDDHESH MAHESH | 1 | 2 | 3 | 6 | | 2 | 2 | 4 | 8 | | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | | 1 | 2 | 2 | 5 | |
| 5 | 20MS024 | PATIL YASH DIPAK | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | |
| 6 | 20MS025 | PIMPLE MALHAR AJIT | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | | 2 | 2 | 3 | 7 | | 2 | 3 | 4 | 9 | |
| 7 | 20MS026 | SHINDE YOGADA SANTOSH | 1 | 3 | 2 | 6 | | 2 | 3 | 4 | 9 | | 2 | 4 | 3 | 9 | | 2 | 3 | 2 | 7 | | 0 | 3 | 2 | 5 | |
| 8 | 20MS027 | SHIRODKAR ATHARWA SUHAS | 2 | 2 | 3 | 7 | | 2 | 2 | 3 | 7 | | 2 | 3 | 3 | 8 | | 2 | 3 | 2 | 7 | | 2 | 3 | 3 | 8 | |
| 9 | 20MS028 | SONAWANI PARTH SANJAY | 2 | 3 | 4 | 9 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 2 | 7 | | 2 | 3 | 3 | 8 | |
| | 20MS029 | URKUDE NIRANJAN JITENDRA | 2 | 4 | 4 | 10 | | 2 | 4 | 3 | 9 | | 2 | 2 | 4 | 8 | | 2 | 4 | 3 | 9 | | 1 | 2 | 3 | 6 | |
| 1 | 20MS030 | UTTEKAR ARYESH DHIRAJ | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 2 | 7 | | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | |
| 2 | 20MS031 | WELDE PARTH JAGDISH | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | | 2 | 3 | 2 | 7 | | 2 | 3 | 4 | 8 | | 2 | 4 | 3 | 9 | |
| 3 | 20MS032 | YEVATEKAR YASH MUKUND | 1 | 2 | 3 | 6 | | 2 | 4 | 3 | 9 | | 2 | 2 | 3 | 7 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | |
| 4 | 21MS301 | BHOI BHAVESH SUNIL | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 2 | 2 | 6 | | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | |
| 5 | 21MS302 | CHAUDHARI DEVENDRA ANIL | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | | 2 | 4 | 3 | 9 | | 2 | 3 | 2 | 7 | |
| 6 | 21MS303 | CHAUDHARI MOHAN DATTATRAY | 3 | 4 | 8 | | | 2 | 4 | 4 | 10 | | 2 | 3 | 3 | 8 | | 1 | 3 | 2 | 6 | | 2 | 3 | 2 | 7 | |
| 7 | 21MS304 | CHAUDHARI ROHIT PRAMOD | 2 | 4 | 3 | 9 | | 2 | 3 | 3 | 8 | | 1 | 2 | 2 | 5 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | |
| 8 | 21MS305 | CHAUDHARI SHALEM NARESH | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 3 | 4 | 9 | |
| 9 | 21MS306 | CHOURE RAMHARI ASARAM | 1 | 2 | 4 | 7 | | 2 | 3 | 4 | 9 | | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | | 2 | 4 | 3 | 9 | |
| 10 | 21MS307 | DALE PRASHANT DILIPRAO | 2 | 3 | 3 | 8 | | 2 | 3 | 3 | 8 | | 2 | 4 | 3 | 9 | | 2 | 3 | 2 | 7 | | 2 | 3 | 3 | 8 | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed). PP: Marks for Periodic Examinations.

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed)

PP: Marks for Performance & Presentation (04)

U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature:

HoD Signature:

SVC



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COLLEGE OF ENGINEERING

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Accredited by NAAC with "A+" Grade



Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| DIV: Sandwich | | | BATCH: C | | SUBJECT: Numerical and Statistical Methods | | | | | | | | | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | | |
|---------------|----------------------------------|---------------------------------|----------|----------------|--|----------------|---------------------------------|----|----------------|----------------|----------------|--------------------------------|----|----------------|---------------------------------|----------------|---------------------------------|----|----------------|----------------|----------------|---------------------------------|----|----------------|----------------|----------------|
| No. | Name of the Student | Expt. No.: 1 Date: 21/7/2022 | | | | | Expt. No.: 2 Date: 28/7/2022 | | | | | Expt. No.: 3 Date: 4/8/2022 | | | | | Expt. No.: 4 Date: 12/8/2022 | | | | | Expt. No.: 5 Date: 19/8/2022 | | | | |
| | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 08 | DATE DHANANJAY VILAS | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 09 | DESHMUKH ATHANG VIVEK | 2 | 4 | 3 | 9 | Dr. D S Malwad | 0 | 4 | 3 | 7 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 10 | GAIKWAD TEJAS SHAIENDRA | 0 | 3 | 4 | 7 | Dr. D S Malwad | 0 | 4 | 4 | 8 | Dr. D S Malwad | 0 | 0 | 0 | 0 | Dr. D S Malwad | 0 | 0 | 0 | 0 | Dr. D S Malwad | 0 | 0 | 0 | 0 | Dr. D S Malwad |
| 11 | GARODI KUNAL NAMDEO | 1 | 4 | 3 | 8 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad |
| 12 | GHODERAO SHUBHAM ANIL | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad |
| 13 | GORAD SAURAV GORAKSHANATH | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 14 | GUGALE YASH SANDIP | 0 | 3 | 4 | 7 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 1 | 4 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 15 | HATTARGE ABHISHEK ANIL | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 16 | HINGANE SHUBHAM VIKAS | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad |
| 17 | KADAM SIDDHANT SACHIN | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad |
| 18 | KALE MANSI ULHAS | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 0 | 4 | 4 | 8 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 19 | KARANJIKAR ADITI RAMCHANDRA | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 20 | KHATIB AFRID FIROJ | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 3 | 3 | 8 | Dr. D S Malwad |
| 21 | KSHIRSAGAR SHARVARI MADHUKAR | 3 | 4 | 8 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | |
| 22 | LIMKAR SHAUNAK PRASHAANT | 2 | 4 | 3 | 9 | Dr. D S Malwad | 0 | 4 | 4 | 8 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad |
| 23 | LONARI ROHIT SHANKAR | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 3 | 3 | 8 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad |
| 24 | MAGARE OM SHIRISH | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 3 | 8 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad |
| 25 | MALEKAR SARVESH DEEPAK | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad |
| 26 | MANE MANASI NARENDRA | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 4 | 10 | Dr. D S Malwad | 2 | 4 | 3 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad |
| 27 | MUJAWAR MAHAMMADSAIF JAKIRHUSENI | 2 | 5 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | 2 | 3 | 4 | 9 | Dr. D S Malwad | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature



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COLLEGE OF ENGINEERING

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Accredited by NAAC with "A+" Grade



Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| DIV: Sandwich | | BATCH: C | | SUBJECT: Numerical and Statistical Methods | | | | | | | | | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | | | |
|---------------|----------------------------------|---------------------------------|----|--|-------------|------|--------------------------------|----|---|-------------|------|---------------------------------|----|---------------------------------|-------------|------|---------------------------------|----|---|-------------|------|----------------------------------|----|---|-------------|------|
| No. | Name of the Student | Expt. No.: 6 Date: 19/8/2022 | | | | | Expt. No.: 7 Date: 2/9/2022 | | | | | Expt. No.: 8 Date: 16/9/2022 | | | | | Expt. No.: 9 Date: 23/9/2022 | | | | | Expt. No.: 10 Date: 4/11/2022 | | | | |
| | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 8 | DATE DHANANJAY VILAS | 2 | 3 | 4 | 9 | over | 2 | 3 | 2 | 7 | over | 2 | 3 | 3 | 8 | over | 2 | 3 | 4 | 9 | over | 2 | 3 | 4 | 9 | over |
| 9 | DESHMUKH ATHANG VIVEK | 2 | 3 | 3 | 8 | over | 1 | 2 | 3 | 6 | over | 2 | 3 | 4 | 9 | over | 2 | 3 | 4 | 9 | over | 2 | 3 | 4 | 9 | over |
| 10 | GAIKWAD TEJAS SHAILENDRA | 2 | 3 | 3 | 8 | over | 2 | 3 | 3 | 6 | over | 0 | 3 | 3 | 6 | over | 0 | 2 | 3 | 5 | over | 0 | 3 | 3 | 6 | over |
| 1 | GARODI KUNAL NAMDEO | 1 | 4 | 5 | 8 | over | 2 | 3 | 3 | 8 | over | 2 | 4 | 2 | 8 | over | 2 | 3 | 4 | 9 | over | 3 | 4 | 4 | 10 | over |
| 2 | GHODERAU SHUBHAM ANIL | 2 | 2 | 3 | 7 | over | 1 | 3 | 4 | 8 | over | 2 | 3 | 3 | 8 | over | 2 | 3 | 3 | 8 | over | 3 | 4 | 4 | 10 | over |
| 3 | GORAD SAURAV GORAKSHANATH | 0 | 2 | 2 | 4 | over | 2 | 2 | 3 | 7 | over | 1 | 3 | 3 | 7 | over | 1 | 3 | 4 | 8 | over | 3 | 4 | 3 | 9 | over |
| 4 | GUGALE YASH SANDIP | 2 | 3 | 4 | 9 | over | 2 | 3 | 3 | 8 | over | 2 | 4 | 3 | 9 | over | 2 | 4 | 3 | 9 | over | 2 | 3 | 3 | 8 | over |
| 5 | HATTARGE ABHISHEK ANIL | 2 | 3 | 3 | 8 | over | 2 | 2 | 3 | 7 | over | 2 | 2 | 2 | 6 | over | 2 | 4 | 4 | 10 | over | 1 | 3 | 3 | 7 | over |
| 6 | HINGANE SHUBHAM VIKAS | 2 | 3 | 3 | 8 | over | 2 | 3 | 2 | 7 | over | 2 | 3 | 2 | 7 | over | 2 | 3 | 2 | 7 | over | 2 | 2 | 4 | 8 | over |
| 7 | KADAM SIDDHANT SACHIN | 1 | 3 | 2 | 6 | over | 2 | 3 | 3 | 8 | over | 0 | 2 | 3 | 5 | over | 1 | 4 | 2 | 7 | over | 2 | 3 | 3 | 8 | over |
| 8 | KALE MANSI ULHAS | 2 | 2 | 2 | 6 | over | 2 | 2 | 2 | 6 | over | 2 | 3 | 4 | 9 | over | 2 | 3 | 2 | 7 | over | 2 | 3 | 4 | 9 | over |
| 9 | KARANJKA ADITI RAMCHANDRA | 2 | 2 | 2 | 6 | over | 2 | 3 | 2 | 7 | over | 2 | 3 | 3 | 8 | over | 2 | 3 | 2 | 7 | over | 2 | 3 | 4 | 9 | over |
| 10 | KHATIB AFRID FIROJ | 0 | 2 | 3 | 5 | over | 1 | 3 | 4 | 8 | over | 0 | 4 | 3 | 7 | over | 2 | 4 | 3 | 9 | over | 2 | 4 | 4 | 10 | over |
| 1 | KSHIRSAGAR SHARVARI MADHUKAR | 2 | 3 | 2 | 7 | over | 2 | 3 | 2 | 7 | over | 1 | 3 | 3 | 7 | over | 2 | 4 | 3 | 9 | over | 2 | 3 | 3 | 8 | over |
| 2 | LIMKAR SHAUNAK PRASHAANT | 2 | 4 | 3 | 9 | over | 2 | 3 | 4 | 9 | over | 2 | 2 | 3 | 7 | over | 0 | 2 | 1 | 3 | over | 1 | 3 | 4 | 8 | over |
| 3 | LONARI ROHIT SHANKAR | 2 | 3 | 4 | 9 | over | 1 | 3 | 3 | 7 | over | 2 | 3 | 4 | 9 | over | 2 | 3 | 3 | 8 | over | 2 | 4 | 3 | 9 | over |
| 4 | MAGARE OM SHIRISH | 2 | 3 | 3 | 8 | over | 2 | 4 | 4 | 10 | over | 2 | 3 | 3 | 8 | over | 2 | 4 | 4 | 10 | over | 2 | 3 | 4 | 9 | over |
| 5 | MALEKAR SARVESH DEEPAK | 2 | 3 | 3 | 8 | over | 2 | 3 | 2 | 7 | over | 3 | 3 | 4 | 9 | over | 2 | 3 | 3 | 10 | over | 2 | 3 | 3 | 8 | over |
| 6 | MANE MANASI NARENDRA | 1 | 2 | 2 | 5 | over | 2 | 3 | 2 | 7 | over | 1 | 3 | 3 | 7 | over | 2 | 3 | 4 | 9 | over | 2 | 2 | 4 | 8 | over |
| 7 | MUJAWAR MAHAMMADSAIF JAKIRHUSEIN | 2 | 2 | 5 | 9 | over | 2 | 3 | 3 | 8 | over | 2 | 3 | 3 | 8 | over | 2 | 3 | 4 | 9 | over | 2 | 4 | 4 | 10 | over |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & D

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature



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Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| TE | | DIV: Sandwich | | BATCH: D | | SUBJECT: Numerical and Statistical Methods | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|---------------------------------|----|----------|-------------|--|--------------------------------|---------------------------------|---|-------------|---------|---------------------------------|----|---|-------------|---------|---------------------------------|----|---|-------------|---------|---------------------------------|----|---|-------------|---------|
| No. | Name of the Student | Expt. No.: 1 Date: 29/7/2022 | | | | | Expt. No.: 2 Date: 5/8/2022 | | | | | Expt. No.: 3 Date: 10/8/2022 | | | | | Expt. No.: 4 Date: 12/8/2022 | | | | | Expt. No.: 5 Date: 17/8/2022 | | | | |
| | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 28 | PALANGE ATHARVA PRADEEP | 2 | 3 | 2 | 7 | Atharv | 2 | 3 | 3 | 8 | Atharv | 2 | 2 | 2 | 6 | Atharv | 2 | 4 | 3 | 9 | Atharv | 2 | 3 | 3 | 8 | Atharv |
| 29 | PALI WAL SHEETAL SACHIN | 2 | 3 | 3 | 8 | Sheetal | 2 | 3 | 4 | 9 | Sheetal | 1 | 2 | 2 | 5 | Sheetal | 1 | 2 | 0 | 3 | Sheetal | 2 | 2 | 3 | 7 | Sheetal |
| 30 | PANCHAL MAROTI DNYANOBA | 2 | 3 | 4 | 9 | Marot | 2 | 3 | 3 | 8 | Marot | 2 | 3 | 4 | 9 | Marot | 2 | 2 | 3 | 7 | Marot | 0 | 2 | 1 | 3 | Marot |
| 31 | PATIL ADITYA AJAY | 2 | 3 | 3 | 8 | Adi | 2 | 3 | 3 | 8 | Adi | 2 | 3 | 3 | 8 | Adi | 2 | 3 | 3 | 8 | Adi | 2 | 2 | 3 | 7 | Adi |
| 32 | PATIL KANISHK SHARAD | 1 | 2 | 2 | 5 | PK | 1 | 3 | 3 | 7 | PK | 1 | 3 | 3 | 7 | PK | 1 | 3 | 3 | 7 | PK | 2 | 2 | 3 | 7 | PK |
| 33 | PATIL PRAGATI UDAY | 2 | 2 | 1 | 5 | Patil | 2 | 2 | 3 | 7 | Patil | 0 | 3 | 2 | 5 | Patil | 2 | 4 | 3 | 9 | Patil | 2 | 2 | 3 | 7 | Patil |
| 34 | PATIL RAJ KIRAN | 2 | 3 | 2 | 7 | Raj | 2 | 4 | 3 | 9 | Raj | 2 | 3 | 4 | 9 | Raj | 1 | 3 | 4 | 8 | Raj | 2 | 3 | 3 | 8 | Raj |
| 35 | PAWASKAR MAYURESH KISHOR | 2 | 3 | 4 | 9 | Mayur | 2 | 3 | 3 | 8 | Mayur | 2 | 3 | 4 | 9 | Mayur | 2 | 4 | 3 | 9 | Mayur | 2 | 4 | 3 | 9 | Mayur |
| 36 | POMAN PRACHIT PRAVIN | 2 | 3 | 2 | 7 | Prachit | 0 | 0 | 0 | 0 | Prachit | 2 | 4 | 3 | 9 | Prachit | 2 | 3 | 3 | 8 | Prachit | 2 | 3 | 3 | 8 | Prachit |
| 37 | RANE VISHAL PRAKASH | 1 | 3 | 2 | 6 | Rane | 2 | 3 | 2 | 7 | Rane | 1 | 2 | 2 | 5 | Rane | 2 | 3 | 3 | 8 | Rane | 2 | 3 | 3 | 8 | Rane |
| 38 | SABALE PRAHLAD GAUTAM | 2 | 3 | 3 | 8 | Sabale | 0 | 3 | 2 | 5 | Sabale | 2 | 3 | 2 | 7 | Sabale | 0 | 2 | 2 | 4 | Sabale | 2 | 3 | 3 | 8 | Sabale |
| 39 | SHINDE SANDHYA DHARMRAJ | 1 | 3 | 3 | 7 | Shinde | 2 | 2 | 4 | 8 | Shinde | 2 | 2 | 2 | 6 | Shinde | 2 | 3 | 3 | 8 | Shinde | 1 | 3 | 3 | 7 | Shinde |
| 40 | SONAWANE GANESH NIMBA | 1 | 3 | 4 | 8 | Jon | 1 | 3 | 3 | 7 | Jon | 2 | 3 | 4 | 9 | Jon | 2 | 3 | 2 | 7 | Jon | 2 | 4 | 3 | 9 | Jon |
| 41 | SONDKAR SHWETA AMOL | 2 | 3 | 3 | 8 | Amol | 2 | 3 | 3 | 8 | Amol | 0 | 2 | 2 | 4 | Amol | 2 | 3 | 3 | 8 | Amol | 2 | 3 | 4 | 9 | Amol |
| 42 | SUTAR OMKAR BHARAT | 2 | 3 | 3 | 8 | Omkar | 2 | 3 | 4 | 9 | Omkar | 2 | 3 | 4 | 9 | Omkar | 1 | 2 | 2 | 5 | Omkar | 2 | 4 | 3 | 9 | Omkar |
| 43 | TAKLE ANUJ BALASAHEB | 1 | 2 | 3 | 6 | Anu | 2 | 4 | 3 | 9 | Anu | 2 | 4 | 3 | 9 | Anu | 2 | 3 | 3 | 8 | Anu | 2 | 3 | 4 | 9 | Anu |
| 44 | FILEKAR CHETAN NANDKUMAR | 2 | 3 | 3 | 8 | Chetan | 2 | 4 | 3 | 9 | Chetan | 2 | 4 | 3 | 9 | Chetan | 2 | 3 | 3 | 8 | Chetan | 2 | 3 | 4 | 9 | Chetan |
| 45 | WAGHMARE SHUBHAM SANDIP | 2 | 3 | 4 | 9 | Shubham | 2 | 3 | 4 | 9 | Shubham | 2 | 3 | 3 | 8 | Shubham | 2 | 2 | 4 | 8 | Shubham | 2 | 4 | 3 | 9 | Shubham |



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Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| TE | | DIV: Sandwich | | BATCH: D | | SUBJECT: Numerical and Statistical Methods | | | | | | | | | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | |
|-----|--------------------------|---------------------------------|----|----------|-------------|--|---------------------------------|----|---|-------------|---------|----------------------------|----|---|-------------|---------------------------------|---------------------------------|----|---|-------------|---------|-----------------------------------|----|---|-------------|---------|
| No. | Name of the Student | Expt. No.: 6 Date: 24/8/2022 | | | | | Expt. No.: 7 Date: 21/9/2022 | | | | | Expt. No.: 8 Date: 14/9 | | | | | Expt. No.: 9 Date: 21/9/2022 | | | | | Expt. No.: 10 Date: 12/10/2022 | | | | |
| | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 28 | PALANGE ATHARVA PRADEEP | 2 | 3 | 4 | 9 | Other | 2 | 3 | 2 | 7 | Other | 2 | 3 | 4 | 9 | Other | 2 | 3 | 4 | 9 | Other | 2 | 3 | 4 | 9 | Other |
| 29 | PALIWAL SHEETAL SACHIN | 2 | 3 | 3 | 8 | Palival | 2 | 3 | 3 | 8 | Palival | 2 | 4 | 3 | 9 | Palival | 2 | 4 | 3 | 9 | Palival | 2 | 4 | 3 | 9 | Palival |
| 30 | PANCHAL MAROTI DNYANOBA | 2 | 3 | 3 | 8 | Maroti | 2 | 3 | 4 | 9 | Maroti | 2 | 3 | 3 | 9 | Maroti | 2 | 2 | 3 | 7 | Maroti | 2 | 3 | 3 | 8 | Maroti |
| 31 | PATIL ADITYA AJAY | 1 | 2 | 1 | 4 | Patil | 2 | 4 | 3 | 9 | Patil | 2 | 3 | 3 | 9 | Patil | 1 | 2 | 2 | 5 | Patil | 1 | 3 | 3 | 6 | Patil |
| 32 | PATIL KANISHK SHARAD | 0 | 0 | 2 | 2 | PK | 0 | 2 | 3 | 5 | PK | 0 | 3 | 4 | 7 | PK | 1 | 2 | 2 | 5 | PK | 1 | 4 | 3 | 8 | PK |
| 33 | PATIL PRAGATI UDAY | 2 | 3 | 4 | 9 | Patil | 2 | 3 | 3 | 8 | Patil | 1 | 3 | 4 | 8 | Patil | 2 | 3 | 3 | 8 | Patil | 2 | 4 | 3 | 9 | Patil |
| 34 | PATIL RAJ KIRAN | 2 | 3 | 3 | 8 | Patil | 2 | 3 | 3 | 8 | Patil | 2 | 3 | 3 | 8 | Patil | 2 | 3 | 2 | 7 | Patil | 2 | 3 | 4 | 9 | Patil |
| 35 | PAWASKAR MAYURESH KISHOR | 2 | 3 | 3 | 8 | MKP | 2 | 4 | 3 | 9 | MKP | 2 | 3 | 4 | 9 | MKP | 0 | 2 | 3 | 5 | MKP | 2 | 2 | 2 | 6 | MKP |
| 36 | POMAN PRACHIT PRAVIN | 0 | 3 | 2 | 5 | PP | 2 | 3 | 4 | 9 | PP | 2 | 3 | 4 | 9 | PP | 2 | 3 | 3 | 8 | PP | 0 | 2 | 1 | 3 | PP |
| 37 | RANE VISHAL PRAKASH | 2 | 4 | 3 | 9 | Ran | 1 | 3 | 3 | 7 | Ran | 1 | 3 | 4 | 8 | Ran | 2 | 4 | 3 | 9 | Ran | 2 | 4 | 3 | 9 | Ran |
| 38 | SABALE PRAHLAD GAUTAM | 2 | 4 | 4 | 10 | S | 2 | 3 | 3 | 8 | S | 2 | 4 | 4 | 10 | S | 2 | 3 | 4 | 9 | S | 2 | 3 | 4 | 9 | S |
| 39 | SHINDE SANDHYA DHARMRAJ | 1 | 2 | 3 | 6 | Shinde | 2 | 4 | 3 | 9 | Shinde | 2 | 3 | 4 | 9 | Shinde | 2 | 2 | 2 | 6 | Shinde | 2 | 3 | 4 | 9 | Shinde |
| 40 | SONAWANE GANESH NIMBA | 2 | 3 | 2 | 7 | Jo | 0 | 2 | 1 | 3 | Jo | 1 | 3 | 4 | 8 | Jo | 2 | 4 | 3 | 9 | Jo | 2 | 3 | 3 | 8 | Jo |
| 41 | SONDKAR SHWETA AMOL | 2 | 4 | 3 | 9 | Jo | 2 | 3 | 4 | 9 | Jo | 2 | 4 | 4 | 10 | Jo | 2 | 3 | 4 | 9 | Jo | 2 | 4 | 3 | 9 | Jo |
| 42 | SUTAR OMKAR BHARAT | 2 | 4 | 3 | 9 | Jo | 2 | 3 | 3 | 8 | Jo | 2 | 3 | 4 | 9 | Jo | 2 | 3 | 4 | 9 | Jo | 0 | 3 | 2 | 5 | Jo |
| 43 | TAKLE ANUJ BALASAHEB | 2 | 3 | 3 | 8 | Take | 2 | 3 | 3 | 8 | Take | 2 | 4 | 3 | 9 | Take | 3 | 3 | 4 | 9 | Take | 2 | 4 | 3 | 9 | Take |
| 44 | TILEKAR CHETAN NANDKUMAR | 2 | 3 | 3 | 8 | Shetkar | 2 | 4 | 2 | 8 | Shetkar | 2 | 2 | 3 | 7 | Shetkar | 0 | 0 | 2 | 2 | Shetkar | 2 | 3 | 4 | 9 | Shetkar |
| 45 | WAGHMARE SHUBHAM SANDIP | 2 | 3 | 4 | 9 | Sh | 2 | 3 | 3 | 8 | Sh | 2 | 3 | 3 | 8 | Sh | 2 | 4 | 3 | 9 | Sh | 2 | 3 | 2 | 7 | Sh |



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Mechanical Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: TE | | DIV: Sandwich | BATCH: A | | SUBJECT: Numerical and Statistical Methods | | | | | | | | | | NAME OF FACULTY: Dr. D S Malwad | | | | | | | | | | | | |
|-----------|----------|-------------------------|---------------------------------|----|--|-------------|----|-------------------------------|----|---|-------------|----|---------------------------|----|---------------------------------|-------------|----|----------------------------|----|---|-------------|----|---------------------------------|----|----|-------------|----|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 1 Date: 19/7/2022 | | | | | Expt. No.: 2 Date: 28/7/22 | | | | | Expt. No.: 3 Date: 4/8 | | | | | Expt. No.: 4 Date: 11/8 | | | | | Expt. No.: 5 Date: 25/8/2022 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 19MS031 | ATUL BALU LOKHANDE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 2 | 20MS001 | AGRAWAL JAY GANESH | 2 | 3 | 3 | 8 | 0 | 2 | 4 | 3 | 9 | 0 | 2 | 3 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 9 | 0 | 0 |
| 3 | 20MS002 | BHONSLE KARAN HAMBIR | 2 | 3 | 3 | 8 | 0 | 2 | 3 | 3 | 8 | 0 | 2 | 3 | 3 | 8 | 0 | 2 | 3 | 3 | 8 | 0 | 1 | 4 | 8 | 0 | 0 |
| 4 | 20MS003 | BHOSALE JAYESH | 2 | 3 | 3 | 8 | 0 | 2 | 3 | 2 | 7 | 0 | 2 | 2 | 4 | 6 | 0 | 2 | 4 | 3 | 9 | 0 | 1 | 3 | 4 | 8 | 0 |
| 5 | 20MS004 | BUUNDELE PRERNA | 2 | 3 | 4 | 9 | 0 | 2 | 2 | 4 | 8 | 0 | 0 | 3 | 3 | 6 | 2 | 3 | 3 | 8 | 0 | 2 | 3 | 4 | 9 | 0 | |
| 6 | 20MS005 | CHOUDHARI KAILASH | 0 | 1 | 2 | 3 | 0 | 0 | 2 | 4 | 6 | 0 | 2 | 2 | 2 | 6 | 0 | 1 | 4 | 2 | 7 | 0 | 0 | 4 | 3 | 7 | 0 |
| 7 | 20MS006 | DAKLIYA YASH PRASHANT | 2 | 4 | 2 | 8 | 0 | 2 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 7 | 0 | 2 | 4 | 2 | 8 | 0 | 1 | 3 | 4 | 8 | 0 |
| 8 | 20MS007 | GUJARATHI GAURANG | 2 | 3 | 3 | 8 | 0 | 2 | 2 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 8 | 0 | 2 | 4 | 4 | 10 | 0 | |
| 9 | 20MS008 | HATTEKAR NIKHIL ABHAY | 2 | 4 | 3 | 9 | 0 | 2 | 3 | 4 | 9 | 0 | 2 | 2 | 3 | 7 | 0 | 2 | 3 | 3 | 8 | 0 | 2 | 4 | 4 | 10 | 0 |
| 10 | 20MS009 | INGALE ASAWARI DINKAR | 2 | 4 | 4 | 10 | 0 | 2 | 4 | 3 | 9 | 0 | 2 | 4 | 3 | 9 | 0 | 2 | 4 | 2 | 8 | 0 | 1 | 3 | 4 | 8 | 0 |
| 11 | 20MS010 | IRALE SUMEET SURESH | 2 | 1 | 2 | 5 | 0 | 0 | 5 | 2 | 7 | 0 | 0 | 3 | 2 | 5 | 0 | 1 | 3 | 4 | 8 | 0 | 2 | 4 | 4 | 10 | 0 |
| 12 | 20MS011 | JADHAV SHANTANU SANJAY | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 4 | 6 | 0 | 1 | 3 | 3 | 7 | 0 | 1 | 4 | 3 | 8 | 0 | 2 | 3 | 4 | 9 | 0 |
| 13 | 20MS012 | JADHAV SHASHWAT SHIVAJI | 0 | 2 | 3 | 5 | 0 | 1 | 2 | 5 | 8 | 0 | 2 | 4 | 4 | 10 | 0 | 2 | 3 | 2 | 7 | 0 | 3 | 4 | 4 | 10 | 0 |
| 14 | 20MS013 | JAKAPURE SHIVSHANKAR | 2 | 1 | 2 | 5 | 0 | 2 | 1 | 2 | 5 | 0 | 2 | 3 | 3 | 8 | 0 | 2 | 3 | 4 | 9 | 0 | 2 | 3 | 4 | 9 | 0 |
| 15 | 20MS014 | KADAM KRISHNA | 2 | 3 | 4 | 9 | 0 | 1 | 2 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 8 | 0 | 1 | 4 | 3 | 8 | 0 | |
| 16 | 20MS015 | KHARKAR PUSHPANJAY | 2 | 3 | 4 | 9 | 0 | 2 | 3 | 3 | 8 | 0 | 2 | 2 | 3 | 7 | 0 | 1 | 3 | 2 | 6 | 0 | 2 | 4 | 3 | 10 | 0 |
| 17 | 20MS016 | KULKARNI ABHISHEK | 2 | 2 | 2 | 6 | 0 | 2 | 4 | 2 | 8 | 0 | 2 | 2 | 3 | 7 | 0 | 2 | 4 | 4 | 10 | 0 | 2 | 4 | 3 | 9 | 0 |
| 18 | 20MS017 | LATE PRATHAMESH GIRISH | 0 | 1 | 3 | 4 | 0 | 2 | 4 | 2 | 8 | 0 | 4 | 1 | 3 | 8 | 0 | 4 | 2 | 3 | 9 | 0 | 4 | 2 | 3 | 9 | 0 |
| 19 | 20MS018 | MANDALE ADITYA UMESH | 1 | 2 | 3 | 6 | 0 | 2 | 3 | 2 | 7 | 0 | 2 | 4 | 3 | 9 | 0 | 2 | 3 | 2 | 7 | 0 | 2 | 4 | 4 | 10 | 0 |
| 20 | 20MS019 | MHASKE CHAITANYA MILIND | 1 | 4 | 3 | 8 | 0 | 1 | 2 | 1 | 4 | 0 | 2 | 4 | 4 | 10 | 0 | 2 | 3 | 4 | 9 | 0 | 1 | 4 | 4 | 9 | 0 |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature:

D.S. Malwad

HoD Signature:

SVK



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | | DIV: A | | BATCH: A | | SUBJECT: OR | | | | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|-------------------|----|----------|-------------|-------------|--------------------|----|---|-------------|--------------------------------|--------------------|----|---|-------------|---------|--------------------|----|---|-------------|---------|--------------------|----|---|-------------|---------|--|--|
| SN | Roll No. | Name of the Student | Expt. No.: 1 28/7 | | | | | Expt. No.: 1 04/08 | | | | | Expt. No.: 2 11/08 | | | | | Expt. No.: 2 04/09 | | | | | Expt. No.: 3 15/09 | | | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | | |
| 1 | 19PS001 | ABHIJEET PANDEY | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | - | 4 | 4 | 7 | Abhi | 2 | 3 | 3 | 8 | Abhi | | |
| 2 | 20PS301 | AMBUPE ABHISHEK U | - | 3 | 3 | 6 | Abhi | - | 3 | 3 | 6 | Abhi | - | 3 | 3 | 6 | Abhi | - | 3 | 3 | 6 | Abhi | 2 | 3 | 3 | 8 | Abhi | | |
| 3 | 19PS002 | AMRUTKAR RUSHIKESH | 2 | 3 | 3 | 8 | Abhi | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 4 | 4 | 8 | Abhi | - | 4 | 3 | 7 | Abhi | | |
| 4 | 19PS004 | BANDGAR SHUBHAM K | 2 | 3 | 3 | 8 | SHUB | 2 | 3 | 4 | 9 | SHUB | 2 | 3 | 4 | 9 | SHUB | 2 | 3 | 4 | 9 | SHUB | 2 | 3 | 3 | 8 | SHUB | | |
| 5 | 20PS302 | BHAGWAT KUNAL VIJAY | 2 | 3 | 3 | 8 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 4 | 4 | 8 | Abhi | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 3 | 8 | Abhi | | |
| 6 | 18PS005 | BHAKRE SHIVAM DILIP | 2 | 3 | 3 | 8 | Abhi | - | 3 | 3 | 6 | Abhi | - | 3 | 4 | 7 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 4 | 7 | Abhi | | |
| 7 | 20PS303 | BHOSALE GAURAV R | 2 | 3 | 4 | 9 | GAUR | 2 | 3 | 4 | 9 | GAUR | 2 | 4 | 4 | 10 | GAUR | 2 | 3 | 4 | 9 | GAUR | 2 | 3 | 4 | 9 | GAUR | | |
| 8 | 20PS304 | CHAVAN SARANG SUNIL | 2 | 3 | 4 | 9 | SS | - | 3 | 3 | 6 | SS | 2 | 4 | 4 | 10 | SS | - | 4 | 4 | 8 | SS | 2 | 3 | 4 | 9 | SS | | |
| 9 | 20PS305 | CHAWARE KARTIKI S | 2 | 3 | 3 | 8 | Dalvi | 2 | 3 | 4 | 9 | Dalvi | - | 3 | 4 | 7 | Dalvi | 2 | 3 | 4 | 9 | Dalvi | 2 | 4 | 3 | 9 | Dalvi | | |
| 10 | 19PS005 | DALVI PRAJAKTA H | 2 | 3 | 4 | 9 | Dalvi | 2 | 3 | 4 | 9 | Dalvi | - | 3 | 4 | 7 | Dalvi | - | 3 | 4 | 7 | Dalvi | - | 3 | 3 | 6 | Dalvi | | |
| 11 | 20PS306 | DODAL KALPESH K | 2 | 3 | 3 | 8 | Dalvi | 2 | 3 | 3 | 8 | Dalvi | - | 3 | 3 | 6 | Dalvi | 2 | 3 | 4 | 9 | Dalvi | 2 | 4 | 3 | 9 | Dalvi | | |
| 12 | 20PS307 | EKSHINGE PRASAD P | - | 3 | 3 | 6 | Prasad | - | 3 | 3 | 6 | Prasad | - | 3 | 3 | 6 | Prasad | - | 3 | 3 | 6 | Prasad | - | 3 | 3 | 6 | Prasad | | |
| 13 | 20PS308 | GAIKWAD SAKSHI M | 2 | 3 | 4 | 9 | GAIK | 2 | 3 | 4 | 9 | GAIK | 2 | 4 | 4 | 10 | GAIK | 2 | 4 | 4 | 10 | GAIK | 2 | 3 | 3 | 8 | GAIK | | |
| 14 | 19PS006 | GAIKWAD SUSHANT S | 2 | 3 | 4 | 9 | Sushant | 2 | 3 | 4 | 9 | Sushant | 2 | 3 | 4 | 9 | Sushant | 2 | 3 | 4 | 9 | Sushant | 2 | 3 | 3 | 8 | Sushant | | |
| 15 | | Gharde Novil | - | 3 | 3 | 6 | | - | 3 | 3 | 6 | | - | 3 | 3 | 6 | | - | 3 | 3 | 6 | | - | 3 | 3 | 6 | | | |
| 16 | 17PS020 | GUJARATHI PALASH D | - | | | | | - | | | | | - | | | | | - | | | | | - | | | | | | |
| 17 | 19PS007 | HONKARPE ABHIJEET B | - | 3 | 4 | 7 | Abhi | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 4 | 7 | Abhi | | |
| 18 | 20PS309 | JADHAV SHREYAS VIJAY | - | | | | | - | | | | | - | | | | | - | | | | | - | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

HoD Signature:

Head of Department
Production Engineering
AISSMS COE, PUNE I



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
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Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | DIV: A | BATCH: A | | SUBJECT: OR | | | | | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|--------------------|----|-------------|-------------|--------|--------------------|----|---|--------------------------------|--------|--------------------|----|---|-------------|--------|--------------------|----|---|-------------|--------|--------------------|----|---|-------------|--------|---|
| SN | Roll No. | Name of the Student | Expt. No.: 3 22/09 | | | | | Expt. No.: 4 27/09 | | | | | Expt. No.: 4 29/09 | | | | | Expt. No.: 5 18/10 | | | | | Expt. No.: 6 03/11 | | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 |
| 1 | 19PS001 | ABHIJEET PANDEY | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 4 | 7 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 3 | 6 | Abhi | |
| 2 | 20PS301 | AMBUPE ABHISHEK U | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 3 | 6 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 3 | 6 | Abhi | |
| 3 | 19PS002 | AMRUTKAR RUSHIKESH | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 3 | 8 | Abhi | 2 | 3 | 4 | 9 | Abhi | 2 | 3 | 3 | 8 | Abhi | |
| 4 | 19PS004 | BANDGAR SHUBHAM K | 2 | 3 | 4 | 9 | SHUB | 2 | 3 | 4 | 9 | SHUB | - | 3 | 3 | 6 | SHUB | 2 | 3 | 3 | 8 | SHUB | 2 | 3 | 3 | 8 | SHUB | |
| 5 | 20PS302 | BHAGWAT KUNAL VIJAY | 2 | 3 | 4 | 9 | Abhi | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | |
| 6 | 18PS005 | BHAKRE SHIVAM DILIP | 2 | 3 | 4 | 9 | Abhi | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | 2 | 3 | 4 | 9 | Abhi | - | 3 | 4 | 7 | Abhi | |
| 7 | 20PS303 | BHOSALE GAURAV R | 2 | 3 | 3 | 8 | GAB | - | 3 | 4 | 7 | GAB | - | 3 | 4 | 7 | GAB | 2 | 3 | 3 | 8 | GAB | - | 3 | 4 | 7 | GAB | |
| 8 | 20PS304 | CHAVAN SARANG SUNIL | 2 | 3 | 3 | 8 | SS | | | | | 2 | | | | | 2 | | | | | 2 | | | | | | |
| 9 | 20PS305 | CHAWARE KARTIKI S | - | 3 | 4 | 7 | Karti | - | 3 | 4 | 7 | Karti | - | 3 | 4 | 7 | Karti | - | 3 | 4 | 7 | Karti | 2 | 3 | 4 | 9 | Karti | |
| 10 | 19PS005 | DALVI PRAJAKTA H | 2 | 3 | 4 | 9 | Praja | 2 | 3 | 4 | 9 | Praja | 2 | 3 | 3 | 8 | Praja | - | 3 | 4 | 7 | Praja | 2 | 3 | 4 | 9 | Praja | |
| 11 | 20PS306 | DODAL KALPESH K | - | 3 | 4 | 7 | Kalpe | - | 3 | 4 | 7 | Kalpe | 2 | 3 | 4 | 9 | Kalpe | 2 | 3 | 4 | 9 | Kalpe | - | 3 | 4 | 7 | Kalpe | |
| 12 | 20PS307 | EKSHINGE PRASAD P | - | 3 | 4 | 7 | Prasa | - | 3 | 3 | 6 | Prasa | - | 3 | 3 | 6 | Prasa | - | 3 | 3 | 6 | Prasa | - | 3 | 3 | 6 | Prasa | |
| 13 | 20PS308 | GAIKWAD SAKSHI M | 2 | 3 | 4 | 7 | Sakshi | - | 3 | 4 | 7 | Sakshi | - | 3 | 3 | 6 | Sakshi | 2 | 3 | 3 | 8 | Sakshi | 2 | 3 | 4 | 9 | Sakshi | |
| 14 | 19PS006 | GAIKWAD SUSHANT S | 2 | 3 | 4 | 7 | Sushan | - | 3 | 4 | 7 | Sushan | - | 3 | 3 | 6 | Sushan | 2 | 3 | 3 | 8 | Sushan | - | 3 | 4 | 7 | Sushan | |
| 15 | | Gharde NOBIL | - | | | | | - | | | | | | | | | - | | | | | - | | | | | | |
| 16 | 17PS020 | GUJARATHI PALASH D | - | | | | | - | | | | | | | | | - | | | | | - | | | | | | |
| 17 | 19PS007 | HONKARPE ABHIJEET B | - | 3 | 3 | 6 | Abhi | 2 | 3 | 3 | 8 | Abhi | - | 3 | 4 | 7 | Abhi | - | 3 | 4 | 7 | Abhi | 2 | 3 | 4 | 9 | Abhi | |
| 18 | 20PS309 | JADHAV SHREYAS VIJAY | - | | | | | - | | | | | | | | | - | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

HOD Signature:

Head of Department
Production Engineering
AISSMS COE, PUNE



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COLLEGE OF ENGINEERING

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Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | DIV: A | BATCH: A | SUBJECT: OR | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|--------------|-------------|---|--------------------------------|---------|------------------|----|---|-------------|----|------------|----|---|-------------|----|------------|----|---|-------------|----|------------|----|---|-------------|----|
| SN | Roll No. | Name of the Student | Expt. No.: 6 | | | | | Expt. No.: 10/11 | | | | | Expt. No.: | | | | | Expt. No.: | | | | | Expt. No.: | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 19PS001 | ABHIJEET PANDEY | 1 | 3 | 4 | 7 | ABH | | | | | | | | | | | | | | | | | | | | |
| 2 | 20PS301 | AMBUPE ABHISHEK U | 1 | 3 | 4 | 7 | ABH | | | | | | | | | | | | | | | | | | | | |
| 3 | 19PS002 | AMRUTKAR RUSHIKESH | 2 | 3 | 4 | 9 | ABH | | | | | | | | | | | | | | | | | | | | |
| 4 | 19PS004 | BANDGAR SHUBHAM K | 2 | 3 | 4 | 9 | SHUB | | | | | | | | | | | | | | | | | | | | |
| 5 | 20PS302 | BHAGWAT KUNAL VIJAY | 2 | 3 | 3 | 8 | ABH | | | | | | | | | | | | | | | | | | | | |
| 6 | 18PS005 | BHAKRE SHIVAM DILIP | 2 | 3 | 3 | 8 | ABH | | | | | | | | | | | | | | | | | | | | |
| 7 | 20PS303 | BHOSALE GAURAV R | 2 | 3 | 4 | 9 | G.A.B | | | | | | | | | | | | | | | | | | | | |
| 8 | 20PS304 | CHAVAN SARANG SUNIL | 1 | | | | ABH | | | | | | | | | | | | | | | | | | | | |
| 9 | 20PS305 | CHAWARE KARTIKI S | 2 | 3 | 4 | 9 | ABH | | | | | | | | | | | | | | | | | | | | |
| 10 | 19PS005 | DALVI PRAJAKTA H | 2 | 3 | 3 | 8 | ABH | | | | | | | | | | | | | | | | | | | | |
| 11 | 20PS306 | DODAL KALPESH K | 2 | 3 | 4 | 9 | ABH | | | | | | | | | | | | | | | | | | | | |
| 12 | 20PS307 | EKSHINGE PRASAD P | 1 | 3 | 3 | 6 | ABH | | | | | | | | | | | | | | | | | | | | |
| 13 | 20PS308 | GAIKWAD SAKSHI M | 1 | 3 | 4 | 7 | ABH | | | | | | | | | | | | | | | | | | | | |
| 14 | 19PS006 | GAIKWAD SUSHANT S | 2 | 3 | 4 | 9 | SUSHANT | | | | | | | | | | | | | | | | | | | | |
| 15 | | Gharde Novil | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 17PS020 | GUJARATHI PALASH D | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 19PS007 | HONKARPE ABHIJEET B | 2 | 3 | 4 | 9 | ABH | | | | | | | | | | | | | | | | | | | | |
| 18 | 20PS309 | JADHAV SHREYAS VIJAY | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejhay Dholle

HoD Signature:

Head of Department
Production Engineering
AISSMS COE, PUNE 1



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | DIV: A | BATCH: B | | SUBJECT: OR | | | | | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|----------------------------|----|-------------|-------------|--------|-----------------------------|----|---|--------------------------------|--------|-----------------------------|----|---|-------------|--------|-----------------------------|----|----|-------------|--------|-----------------------------|----|---|-------------|--------|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 1 Date: 25/7 | | | | | Expt. No.: 1 Date: 08/08 | | | | | Expt. No.: 2 Date: 11/08 | | | | | Expt. No.: 2 Date: 21/08 | | | | | Expt. No.: 3 Date: 12/09 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 19PS008 | JAJU KESHAV M | 01 | 3 | 3 | 07 | Keshav | 01 | 3 | 3 | 07 | Keshav | 01 | 3 | 4 | 8 | Keshav | 2 | 3 | 4 | 9 | Keshav | 1 | 3 | 4 | 7 | Keshav |
| 2 | 20PS310 | JALAGAM VINAYKUMAR S | - | 2 | 4 | 06 | VJ | - | 2 | 4 | 06 | VJ | 01 | 2 | 4 | 7 | VJ | 02 | 3 | 3 | 8 | VJ | 2 | 3 | 4 | 9 | VJ |
| 3 | 20PS311 | JAWALKAR ABHISHEK S | 02 | 2 | 4 | 8 | A. | 02 | 2 | 4 | 8 | A. | - | 3 | 4 | 7 | A. | 02 | 03 | 4 | 9 | A. | 2 | 3 | 4 | 9 | A. |
| 4 | 20PS312 | KACHAVE NARAYAN B | - | 3 | 3 | 6 | B. | 2 | 3 | 3 | 8 | B. | 2 | 2 | 4 | 8 | B. | 2 | 2 | 4 | 8 | B. | 2 | 3 | 4 | 9 | B. |
| 5 | 20PS313 | KADAM RUTUJA UDAY | 2 | 4 | 4 | 10 | R. | 2 | 4 | 4 | 10 | R. | 2 | 4 | 4 | 10 | R. | 2 | 4 | 4 | 10 | R. | 2 | 3 | 4 | 9 | R. |
| 6 | 18PS013 | KOLEKAR MEHUL B | - | 3 | 3 | 6 | M. | - | 3 | 3 | 6 | M. | - | 3 | 4 | 7 | M. | - | 3 | 4 | 7 | M. | - | 3 | 4 | 7 | M. |
| 7 | 20PS314 | LATE SHREYAS J | - | 3 | 4 | 7 | S. | 2 | 3 | 4 | 9 | S. | 2 | 3 | 3 | 8 | S. | - | 3 | 4 | 7 | S. | - | 3 | 4 | 7 | S. |
| 8 | 20PS315 | LOKHANDE SAHIL A | 2 | 3 | 4 | 9 | S. | 2 | 3 | 4 | 9 | S. | 2 | 3 | 3 | 8 | S. | 2 | 3 | 2 | 8 | S. | 2 | 3 | 3 | 8 | S. |
| 9 | 19PS009 | MACHE RADHIKA S | 2 | 3 | 4 | 9 | R. | 2 | 3 | 3 | 8 | R. | 2 | 3 | 4 | 9 | R. | 2 | 3 | 4 | 9 | R. | - | 3 | 4 | 7 | R. |
| 10 | 19PS010 | MANE HRUSHIKESH G | 2 | 4 | 3 | 09 | M. | 2 | 4 | 3 | 09 | M. | 2 | 4 | 3 | 09 | M. | 2 | 3 | 8 | 08 | M. | 2 | 3 | 4 | 9 | M. |
| 11 | 20PS316 | MORE ROHIT RAJENDRA | - | 3 | 4 | 07 | R.R.M. | - | 3 | 4 | 7 | R.R.M. | - | 3 | 4 | 7 | R.R.M. | - | 3 | 4 | 7 | R.R.M. | 2 | 4 | 3 | 9 | R.R.M. |
| 12 | 20PS317 | MULANI ARMAN D | - | 3 | 4 | 7 | M. | 2 | 3 | 4 | 9 | M. | - | 3 | 3 | 6 | M. | - | 3 | 4 | 7 | M. | - | 3 | 4 | 7 | M. |
| 13 | 20PS318 | MULAY KAIWALYA S | - | 3 | 4 | 07 | M. | 2 | 3 | 4 | 09 | M. | 01 | 3 | 4 | 08 | M. | 01 | 3 | 04 | 08 | M. | - | 3 | 4 | 7 | M. |
| 14 | 18PS019 | PAROLEKAR SUNNY Y | 2 | 3 | 3 | 8 | P. | 2 | 3 | 3 | 08 | P. | 2 | 3 | 4 | 9 | P. | - | 3 | 4 | 07 | P. | - | 3 | 4 | 7 | P. |
| 15 | 18PS020 | PASALKAR SIDDHANT D | - | 3 | 4 | 7 | P. | 2 | 2 | 3 | 7 | P. | - | 3 | 4 | 7 | P. | 2 | 3 | 4 | 9 | P. | - | 3 | 4 | 7 | P. |
| 16 | 18PS021 | PATIL AAYUSH S | 2 | 3 | 4 | 9 | A. | 2 | 3 | 4 | 9 | A. | - | 3 | 4 | 7 | A. | 2 | 3 | 4 | 9 | A. | 2 | 4 | 4 | 10 | A. |
| 17 | 18PS023 | PATIL AKASH R | 2 | 2 | 4 | 8 | A. | - | 3 | 4 | 7 | A. | 2 | 3 | 4 | 9 | A. | - | 3 | 4 | 7 | A. | - | 4 | 3 | 7 | A. |
| 18 | 20PS319 | PATIL DHANARAJ S | - | 3 | 4 | 7 | P. | 2 | 3 | 4 | 9 | P. | - | 3 | 4 | 07 | P. | - | 3 | 4 | 07 | P. | 2 | 4 | 3 | 9 | P. |
| 19 | | | - | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (04) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

HOD Signature:

Head of Department
Production Engineering
AISSMS COE, PUNE 1



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | | DIV: A | | | BATCH: B | | | SUBJECT: OR | | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | | | | | | |
|-----------|----------|----------------------|-----------------------------|----|---|-------------|---------|-----------------------------|-------------|---|-------------|--------------------------------|-----------------------------|----|---|-------------|---------|-----------------------------|----|---|-------------|---------|----------------------------|----|---|-------------|---------|--|--|--|--|
| Sr. No | Roll No. | Name of the Student | Expt. No.: 3 Date: 19/09 | | | | | Expt. No.: 4 Date: 20/09 | | | | | Expt. No.: 5 Date: 17/10 | | | | | Expt. No.: 6 Date: 31/10 | | | | | Expt. No.: 6 Date: 7/11 | | | | | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | | | | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | | | | |
| 1 | 19PS008 | JAJU KESHAV M | 2 | 3 | 4 | 9 | Keshav | 2 | 3 | 3 | 8 | Keshav | 1 | 2 | 4 | 7 | Keshav | 1 | 3 | 3 | 7 | Keshav | 1 | 3 | 4 | 7 | Keshav | | | | |
| 2 | 20PS310 | JALAGAM VINAYKUMAR S | 2 | 3 | 4 | 9 | V.J. | 2 | 4 | 3 | 9 | V.J. | 1 | 3 | 4 | 7 | V.J. | 1 | 3 | 4 | 7 | V.J. | 2 | 3 | 4 | 9 | V.J. | | | | |
| 3 | 20PS311 | JAWALKAR ABHISHEK S | 2 | 3 | 4 | 9 | A. | 2 | 3 | 4 | 9 | A. | 2 | 3 | 3 | 8 | A. | 2 | 3 | 4 | 9 | A. | 2 | 3 | 3 | 8 | A. | | | | |
| 4 | 20PS312 | KACHAVE NARAYAN B | 2 | 3 | 4 | 9 | De | 2 | 3 | 3 | 8 | De | 1 | 3 | 3 | 7 | De | 1 | 3 | 4 | 7 | De | 2 | 3 | 4 | 9 | De | | | | |
| 5 | 20PS313 | KADAM RUTUJA UDAY | 2 | 3 | 4 | 9 | De | 2 | 3 | 4 | 9 | De | 2 | 3 | 4 | 9 | De | 2 | 3 | 4 | 9 | De | 1 | 3 | 4 | 7 | De | | | | |
| 6 | 18PS013 | KOLEKAR MEHUL B | 2 | 3 | 4 | 9 | De | 1 | 3 | 4 | 7 | De | 1 | 3 | 3 | 7 | De | 2 | 3 | 4 | 9 | De | 1 | 3 | 4 | 7 | De | | | | |
| 7 | 20PS314 | LATE SHREYAS J | 1 | 3 | 4 | 7 | De | 1 | 3 | 4 | 7 | De | 1 | 3 | 4 | 7 | De | 1 | 3 | 3 | 7 | De | 2 | 3 | 4 | 7 | De | | | | |
| 8 | 20PS315 | LOKHANDE SAHIL A | 2 | 3 | 4 | 9 | De | 1 | 3 | 4 | 7 | De | 2 | 3 | 4 | 9 | De | 1 | 3 | 4 | 7 | De | 2 | 3 | 4 | 9 | De | | | | |
| 9 | 19PS009 | MACHE RADHIKA S | 2 | 3 | 4 | 9 | Radhika | 2 | 3 | 4 | 9 | Radhika | 1 | 3 | 4 | 7 | Radhika | 1 | 3 | 3 | 7 | Radhika | 1 | 3 | 4 | 7 | Radhika | | | | |
| 10 | 19PS010 | MANE HRUSHIKESH G | 2 | 3 | 4 | 9 | Mane | 2 | 3 | 4 | 9 | Mane | 2 | 3 | 4 | 9 | Mane | 2 | 3 | 4 | 9 | Mane | 2 | 4 | 4 | 10 | Mane | | | | |
| 11 | 20PS316 | MORE ROHIT RAJENDRA | 2 | 3 | 4 | 9 | R.R.M | 2 | 3 | 4 | 9 | R.R.M | 1 | 3 | 4 | 7 | R.R.M | 2 | 4 | 3 | 9 | R.R.M | 1 | 4 | 3 | 7 | R.R.M | | | | |
| 12 | 20PS317 | MULANI ARMAN D | 1 | 3 | 4 | 7 | A. | 1 | 3 | 4 | 7 | A. | 2 | 3 | 4 | 9 | A. | 1 | 4 | 3 | 7 | A. | 1 | 3 | 4 | 7 | A. | | | | |
| 13 | 20PS318 | MULAY KAIWALYA S | 2 | 3 | 4 | 9 | Manulay | 2 | 3 | 4 | 9 | Manulay | 2 | 3 | 4 | 9 | Manulay | 1 | 4 | 3 | 7 | Manulay | 2 | 3 | 4 | 9 | Manulay | | | | |
| 14 | 18PS019 | PAROLEKAR SUNNY Y | 2 | 3 | 3 | 8 | Sunny | 2 | 3 | 4 | 9 | Sunny | 1 | 3 | 4 | 7 | Sunny | 1 | 4 | 3 | 7 | Sunny | 2 | 3 | 4 | 9 | Sunny | | | | |
| 15 | 18PS020 | PASALKAR SIDDHANT D | 2 | 3 | 4 | 9 | S. | 1 | 3 | 4 | 7 | S. | 1 | 3 | 4 | 7 | S. | 2 | 4 | 3 | 9 | S. | 2 | 3 | 4 | 9 | S. | | | | |
| 16 | 18PS021 | PATIL AAYUSH S | 1 | 3 | 4 | 7 | Asati | 2 | 3 | 4 | 9 | Asati | 1 | 3 | 4 | 7 | Asati | 2 | 4 | 3 | 7 | Asati | 2 | 3 | 4 | 9 | Asati | | | | |
| 17 | 18PS023 | PATIL AKASH R | 2 | 3 | 4 | 9 | Asati | 1 | 3 | 4 | 7 | Asati | 1 | 3 | 4 | 7 | Asati | 1 | 4 | 3 | 7 | Asati | 1 | 3 | 4 | 7 | Asati | | | | |
| 18 | 20PS319 | PATIL DHANARAJ S | 2 | 3 | 4 | 9 | De | 2 | 3 | 4 | 9 | De | 2 | 3 | 4 | 9 | De | 1 | 4 | 3 | 7 | De | 2 | 3 | 4 | 9 | De | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

Head of Department
Production Engineering
AISSMS COE, PUNE 1



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
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Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | DIV: A | BATCH: C | SUBJECT: OR | | | | | | | | | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | |
|-----------|----------|---------------------|-------------------|-------------|---|-------------|-----|--------------------|----|---|-------------|-----|-------------------|--------------------------------|---|-------------|-----|-------------------|----|---|-------------|-----|-------------------|----|---|-------------|-----|--|
| SN | Roll No. | Name of the Student | Expt. No.: 1 2017 | | | | | Expt. No.: 1 02/08 | | | | | Expt. No.: 2 30/8 | | | | | Expt. No.: 2 13/9 | | | | | Expt. No.: 3 20/9 | | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | |
| 1 | 20PS320 | PATIL DNYANESH M | - | 2 | 4 | 6 | 4/5 | 2 | 2 | 4 | 8 | 4/5 | - | 3 | 4 | 7 | 4/5 | - | 3 | 4 | 7 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 2 | 20PS321 | PATIL LOKESH RAJIV | - | 2 | 4 | 6 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 3 | 4 | 7 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 3 | 19PS011 | PATIL PRASHANT G | - | 2 | 4 | 6 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 3 | 4 | 7 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | - | 4 | 3 | 7 | 4/5 | |
| 4 | 20PS322 | PAWAR GAURAV SUNIL | - | 3 | 3 | 6 | 4/5 | - | 3 | 3 | 6 | 4/5 | - | 3 | 4 | 7 | 4/5 | - | 3 | 4 | 7 | 4/5 | - | 4 | 4 | 8 | 4/5 | |
| 5 | 20PS323 | PAWAR SHANKAR G | - | 3 | 3 | 6 | 4/5 | - | 3 | 3 | 6 | 4/5 | - | 3 | 4 | 7 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | - | 4 | 3 | 7 | 4/5 | |
| 6 | 20PS324 | PAWAR SWEJAL R | - | 3 | 4 | 7 | 4/5 | - | 3 | 4 | 7 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | - | 3 | 4 | 7 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 7 | 19PS012 | PHAD PRANAV BALIRAM | - | 2 | 4 | 7 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 8 | 18PS026 | RITE AKASH SATISH | - | 3 | 3 | 6 | 4/5 | 2 | 3 | 3 | 8 | 4/5 | - | 4 | 4 | 8 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 9 | 20PS326 | SAID SIDDHANT V | - | 3 | 3 | 6 | 4/5 | - | 3 | 4 | 7 | 4/5 | - | 4 | 4 | 8 | 4/5 | - | 4 | 4 | 8 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | |
| 10 | 18PS031 | SHIVALIKAR SACHHIDA | - | 3 | 4 | 7 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | |
| 11 | 20PS327 | SIDDIQUI ZAIN F | - | | | | 4/5 | - | | | | 4/5 | - | | | | 4/5 | - | | | | 4/5 | - | | | | 4/5 | |
| 12 | 18PS033 | SONAR PRATIK D | - | 3 | 3 | 6 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | - | 4 | 4 | 8 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | |
| 13 | 20PS328 | SONWANE GANESH A | - | 3 | 4 | 7 | 4/5 | - | 4 | 3 | 7 | 4/5 | - | 4 | 4 | 8 | 4/5 | - | 4 | 3 | 7 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 14 | 19PS014 | SUROSHE KRUSHNA S | - | | | | 4/5 | - | | | | 4/5 | - | 4 | 4 | 8 | 4/5 | - | | | | 4/5 | - | | | | 4/5 | |
| 15 | 19PS016 | THAKARE JANHAVI C | - | 3 | 4 | 7 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | - | 4 | 3 | 7 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | - | 4 | 4 | 8 | 4/5 | |
| 16 | 20PS329 | THORAT VAIBHAV N | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 3 | 9 | 4/5 | |
| 17 | 19PS017 | WAGH RUTUJA SURESH | 2 | 3 | 4 | 9 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | 2 | 4 | 4 | 10 | 4/5 | - | 4 | 4 | 8 | 4/5 | |
| 18 | 20PS325 | ZAREKAR PRANAV S | - | 3 | 4 | 7 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | 2 | 3 | 4 | 9 | 4/5 | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

HoD Signature:

Head of Department
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Department of Production Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

| CLASS: BE | | | DIV: A | | | BATCH: C | | | SUBJECT: OR | | | NAME OF FACULTY: Veejay Dholle | | | | | | | | | | | | | | | |
|-----------|----------|---------------------|--------------------|----|---|-------------|----|--------------------|-------------|---|-------------|--------------------------------|--------------------|----|---|-------------|----|--------------------|----|---|-------------|----|--------------------|----|---|-------------|----|
| SN | Roll No. | Name of the Student | Expt. No.: 3 27/09 | | | | | Expt. No.: 4 11/10 | | | | | Expt. No.: 5 01/11 | | | | | Expt. No.: 5 24/11 | | | | | Expt. No.: 6 31/11 | | | | |
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 20PS320 | PATIL DNYANESH M | 2 | 3 | 4 | 9 | 8 | 2 | 3 | 4 | 9 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 |
| 2 | 20PS321 | PATIL LOKESH RAJIV | 2 | 3 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 | - | 4 | 4 | 8 | 8 |
| 3 | 19PS011 | PATIL PRASHANT G | - | 4 | 4 | 8 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 | - | 4 | 4 | 8 | 8 |
| 4 | 20PS322 | PAWAR GAURAV SUNIL | - | 4 | 4 | 8 | 8 | - | 3 | 3 | 6 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 | - | 3 | 4 | 7 | 8 |
| 5 | 20PS323 | PAWAR SHANKAR G | - | 4 | 4 | 8 | 8 | - | 3 | 4 | 7 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 3 | 9 | 8 |
| 6 | 20PS324 | PAWAR SWEJAL R | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 3 | 9 | 8 | - | 4 | 3 | 7 | 8 |
| 7 | 19PS012 | PHAD PRANAV BALIRAM | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 | 2 | 4 | 3 | 9 | 8 | 2 | 4 | 3 | 9 | 8 |
| 8 | 18PS026 | RITE AKASH SATISH | - | 4 | 4 | 8 | 8 | - | 4 | 3 | 7 | 8 | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 | - | 4 | 3 | 7 | 8 |
| 9 | 20PS326 | SAID SIDDHANT V | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 | - | 4 | 4 | 8 | 8 | 2 | 4 | 3 | 9 | 8 | 2 | 4 | 3 | 9 | 8 |
| 10 | 18PS031 | SHIVALIKAR SACHHIDA | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 | 2 | 4 | 3 | 9 | 8 | 2 | 4 | 4 | 10 | 8 |
| 11 | 20PS327 | SIDDIQUI ZAIN F | - | | | | 8 | - | | | | 8 | | | | | 8 | - | | | | 8 | - | | | | 8 |
| 12 | 18PS033 | SONAR PRATIK D | - | 4 | 4 | 8 | 8 | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 | 2 | 4 | 3 | 9 | 8 | 2 | 4 | 4 | 10 | 8 |
| 13 | 20PS328 | SONWANE GANESH A | 2 | 4 | 4 | 10 | 8 | - | 4 | 4 | 8 | 8 | - | 4 | 3 | 7 | 8 | - | 4 | 4 | 8 | 8 | - | 4 | 3 | 7 | 8 |
| 14 | 19PS014 | SUROSHE KRUSHNA S | - | 4 | 4 | 8 | 8 | - | | | | 8 | - | | | | 8 | - | | | | 8 | - | | | | 8 |
| 15 | 19PS016 | THAKARE JANHAVI C | 2 | 4 | 4 | 10 | 8 | - | 4 | 4 | 8 | 8 | - | 4 | 3 | 7 | 8 | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 |
| 16 | 20PS329 | THORAT VAIBHAV N | - | 4 | 4 | 8 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 3 | 9 | 8 |
| 17 | 19PS017 | WAGH RUTUJA SURESH | - | 4 | 4 | 8 | 8 | - | 4 | 4 | 8 | 8 | - | 4 | 3 | 7 | 8 | 2 | 4 | 4 | 10 | 8 | - | 4 | 3 | 7 | 8 |
| 18 | 20PS325 | ZAREKAR PRANAV S | 2 | 4 | 4 | 10 | 8 | - | 4 | 4 | 8 | 8 | 2 | 4 | 4 | 10 | 8 | 2 | 4 | 3 | 9 | 8 | - | 4 | 4 | 8 | 8 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th.&Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

HoD Signature:

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Department of Production Engineering

CAS Calculation 2022-23 (TERM -I)

Class : BE (Batch-A)

Subject: Operation Research

Name of Faculty: Veejhay Dholle

| Sr. No. | Roll No | Name of Students | 1 | 2 | Avg1 (10) | 3 | 4 | Avg2 (10) | 5 | 6 | Avg3 (10) | 7 | 8 | Avg4 (10) | 9 | Avg5 (10) | 10 | 11 | Avg6 (10) |
|---------|---------|-------------------------|---|---|-----------|----|----|-----------|---|---|-----------|---|---|-----------|---|-----------|----|----|-----------|
| 1 | 19PS001 | ABHIJEET PANDEY | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 8.5 | 9 | 7 | 8 | 9 | 9 | 6 | 7 | 6.5 |
| 2 | 20PS301 | AMBUPE ABHISHEK UTTAM | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 9 | 8.5 | 9 | 6 | 7.5 | 9 | 9 | 6 | 7 | 6.5 |
| 3 | 19PS002 | AMRUTKAR RUSHIKESH L | 8 | 9 | 8.5 | 9 | 8 | 8.5 | 7 | 9 | 8 | 9 | 8 | 8.5 | 9 | 9 | 8 | 9 | 8.5 |
| 4 | 19PS004 | BANDGAR SHUBHAM KISHOR | 8 | 9 | 8.5 | 9 | 9 | 9 | 8 | 9 | 8.5 | 9 | 6 | 7.5 | 8 | 8 | 8 | 9 | 8.5 |
| 5 | 20PS302 | BHAGWAT KUNAL VIJAY | 8 | 9 | 8.5 | 8 | 9 | 8.5 | 8 | 9 | 8.5 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7.5 |
| 6 | 18PS005 | BHAKRE SHIVAM DILIP | 8 | 6 | 7 | 7 | 9 | 8 | 7 | 9 | 8 | 7 | 7 | 7 | 9 | 9 | 7 | 8 | 7.5 |
| 7 | 20PS303 | BHOSALE GAURAV R | 9 | 9 | 9 | 10 | 9 | 9.5 | 9 | 8 | 8.5 | 7 | 7 | 7 | 8 | 8 | 7 | 9 | 8 |
| 8 | 20PS304 | CHAVAN SARANG SUNIL | | | | | | | | 8 | 8 | | 0 | 0 | | | | 0 | 0 |
| 9 | 20PS305 | CHAWARE KARTIKI SHANKAR | 8 | 9 | 8.5 | 7 | 9 | 8 | 9 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 |
| 10 | 19PS005 | DALVI PRAJAKTA HEMANT | 9 | 9 | 9 | 7 | 7 | 7 | 6 | 9 | 7.5 | 9 | 8 | 8.5 | 7 | 7 | 9 | 8 | 8.5 |
| 11 | 20PS306 | DODAL KALPESH KISHOR | 8 | 8 | 8 | 6 | 9 | 7.5 | 9 | 7 | 8 | 7 | 9 | 8 | 9 | 9 | 7 | 9 | 8 |
| 12 | 20PS307 | EKSHINGE PRASAD P | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 13 | 20PS308 | GAIKWAD SAKSHI MOHAN | 9 | 9 | 9 | 10 | 10 | 10 | 8 | 7 | 7.5 | 7 | 6 | 6.5 | 8 | 8 | 9 | 7 | 8 |
| 14 | 19PS006 | GAIKWAD SUSHANT S | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 7 | 7.5 | 7 | 6 | 6.5 | 8 | 8 | 7 | 9 | 8 |
| 15 | 17PS064 | G HARDE NOVIL PRAMOD | | | | | | | | 0 | 0 | | 0 | 0 | | | | 0 | 0 |
| 16 | 17PS020 | GUJARATHI PALASH D | | | | | | | | 0 | 0 | | 0 | 0 | | | | 0 | 0 |
| 17 | 19PS007 | HONKARPE ABHIJEET B | 7 | 9 | 8 | 9 | 9 | 9 | 7 | 6 | 6.5 | 8 | 7 | 7.5 | 7 | 7 | 9 | 9 | 9 |
| 18 | 20PS309 | JADHAV SHREYAS VIJAY | | | | | | | | 0 | 0 | | 0 | 0 | | | | 0 | 0 |


HOD Signature

Head of Department
Production Engineering
AISSMS COE, PUNE 1


Faculty Signature

Final Calculation

| Name of Students | Avg1 (10) | Avg2 (10) | Avg3 (10) | Avg4 (10) | Avg5 (10) | Avg6 (10) | Sum (60) | Out of 25 | Round of |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|
| ABHIJEET PANDEY | 7 | 7 | 8.5 | 8 | 9 | 6.5 | 46 | 19.17 | 20 |
| AMBUPE ABHISHEK UTTAM | 6 | 6 | 8.5 | 7.5 | 9 | 6.5 | 43.5 | 18.13 | 19 |
| AMRUTKAR RUSHIKESH L | 8.5 | 8.5 | 8 | 8.5 | 9 | 8.5 | 51 | 21.25 | 22 |
| BANDGAR SHUBHAM KISHOR | 8.5 | 9 | 8.5 | 7.5 | 8 | 8.5 | 50 | 20.83 | 21 |
| BHAGWAT KUNAL VIJAY | 8.5 | 8.5 | 8.5 | 7 | 7 | 7.5 | 47 | 19.58 | 20 |
| BHAKRE SHIVAM DILIP | 7 | 8 | 8 | 7 | 9 | 7.5 | 46.5 | 19.38 | 20 |
| BHOSALE GAURAV R | 9 | 9.5 | 8.5 | 7 | 8 | 8 | 50 | 20.83 | 21 |
| CHAVAN SARANG SUNIL | | | 8 | 0 | | 0 | 8 | 3.333 | |
| CHAWARE KARTIKI SHANKAR | 8.5 | 8 | 8 | 7 | 7 | 9 | 47.5 | 19.79 | 20 |
| DALVI PRAJAKTA HEMANT | 9 | 7 | 7.5 | 8.5 | 7 | 8.5 | 47.5 | 19.79 | 20 |
| DODAL KALPESH KISHOR | 8 | 7.5 | 8 | 8 | 9 | 8 | 48.5 | 20.21 | 21 |
| EKSHINGE PRASAD P | 6 | 6 | 6.5 | 6 | 6 | 6 | 36.5 | 15.21 | 16 |
| GAIKWAD SAKSHI MOHAN | 9 | 10 | 7.5 | 6.5 | 8 | 8 | 49 | 20.42 | 21 |
| GAIKWAD SUSHANT S | 9 | 9 | 7.5 | 6.5 | 8 | 8 | 48 | 20 | 20 |
| GHARDE NOVIL PRAMOD | | | | | | | | | |
| GUJARATHI PALASH D | | | | | | | | | |
| HONKARPE ABHIJEET B | 8 | 9 | 6.5 | 7.5 | 7 | 9 | 47 | 19.58 | 20 |
| JADHAV SHREYAS VIJAY | | | | | | | | | |


Faculty Signature


HOD Signature



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering CAS Calculation 2022-23 (TERM -I)

Class : BE (Batch-B)

Subject: Operation Reserah

Name of Faculty: Veejhay Dholle

| Sr. No | Roll No | Name of Students | 1 | | Avg (1) | 2 | | Avg (2) | 3 | | Avg (3) | 4 | | Avg (4) | 5 | | Avg (5) | 6 | | Avg (6) |
|--------|---------|------------------------|----|----|---------|----|----|---------|----|---|---------|---|---|---------|---|----|---------|-----|----|---------|
| | | | 1 | 2 | | 3 | 4 | | 5 | 6 | | 7 | 8 | | 9 | 10 | | 9 | 10 | |
| 1 | 19PS008 | IAJU KESHAV MATHURADAS | 7 | 7 | 7 | 8 | 9 | 8.5 | 7 | 9 | 8 | 8 | 8 | 7 | 7 | 6 | 7 | 6.5 | | |
| 2 | 20PS310 | JALAGAM VINAYKUMAR S | 6 | 6 | 6 | 7 | 8 | 7.5 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 9 | 8 | | |
| 3 | 20PS311 | JAWALKAR ABHISHEK S | 8 | 8 | 8 | 7 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 8 | 8.5 | | |
| 4 | 20PS312 | KACHAVE NARAYAN B | 6 | 8 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 6 | 6 | 7 | 9 | 8 | | |
| 5 | 20PS313 | KADAM RUTUJA UDAY | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 8 | | |
| 6 | 18PS013 | KOLEKAR MEHUL B | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 9 | 8 | 7 | 7 | 6 | 6 | 9 | 7 | 8 | | |
| 7 | 20PS314 | LATE SHREYAS JITENDRA | 7 | 9 | 8 | 8 | 7 | 7.5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6.5 | | |
| 8 | 20PS315 | LOKHANDE SAHIL ASHOK | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 9 | 8.5 | 7 | 7 | 9 | 9 | 7 | 9 | 8 | | |
| 9 | 19PS009 | MACHE RADHIKA SANJAY | 9 | 8 | 8.5 | 9 | 9 | 9 | 7 | 9 | 8 | 9 | 9 | 7 | 7 | 6 | 7 | 6.5 | | |
| 10 | 19PS010 | MANE HRUSHIKESH GORAKH | 9 | 9 | 9 | 9 | 8 | 8.5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 9.5 | | |
| 11 | 20PS316 | MORE ROHIT RAJENDRA | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 9 | 7 | 8 | | |
| 12 | 20PS317 | MULANI ARMAN DADABHAI | 7 | 9 | 8 | 6 | 7 | 6.5 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 7 | 7 | 7 | | |
| 13 | 20PS318 | MULAY KAIWALYA SANDIP | 7 | 9 | 8 | 8 | 8 | 8 | 7 | 9 | 8 | 9 | 9 | 9 | 9 | 7 | 9 | 8 | | |
| 14 | 18PS019 | PAROLEKAR SUNNY YATIN | 8 | 8 | 8 | 9 | 7 | 8 | 7 | 8 | 7.5 | 9 | 9 | 7 | 7 | 7 | 9 | 8 | | |
| 15 | 18PS020 | PASALKAR SIDDHANT D | 7 | 7 | 7 | 7 | 9 | 8 | 7 | 9 | 8 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | | |
| 16 | 18PS021 | PATIL AAYUSH SHRINIWAS | 9 | 9 | 9 | 7 | 9 | 8 | 10 | 7 | 8.5 | 9 | 9 | 7 | 7 | 7 | 9 | 8 | | |

Head of Department
Production Engineering
AISSMS COE, PUNE

| Sr. No | Roll No | Name of Students | 1 | | Avg (1) | 2 | | Avg (2) | 3 | | Avg (3) | 4 | Avg (4) | 5 | Avg (5) | 6 | | Avg (6) |
|--------|---------|-----------------------|---|---|---------|---|---|---------|---|---|---------|---|---------|---|---------|---|----|---------|
| | | | 1 | 2 | | 3 | 4 | | 5 | 6 | | 7 | | 8 | | 9 | 10 | |
| 17 | 18PS023 | PATIL AKASH RANGNATH | 8 | 7 | 7.5 | 9 | 7 | 8 | 7 | 9 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 18 | 20PS319 | PATIL DHANARAJ SUMANT | 7 | 9 | 8 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 9 | 8 |

| Final Calculation | | | | | | | | | | | |
|-------------------|---------|------------------------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| Sr. No. | Roll No | Name of Students | Avg (1) | Avg (2) | Avg (3) | Avg (4) | Avg (5) | Avg (6) | Sum (60) | Out of 25 | Round off |
| 1 | 19PS008 | JAJU KESHAV MATHURADAS | 7 | 8.5 | 8 | 8 | 7 | 6.5 | 45 | 18.75 | 19 |
| 2 | 20PS310 | JALAGAM VINAYKUMAR S | 6 | 7.5 | 9 | 9 | 7 | 8 | 46.5 | 19.38 | 20 |
| 3 | 20PS311 | JAWALKAR ABHISHEK S | 8 | 8 | 9 | 9 | 8 | 8.5 | 50.5 | 21.04 | 22 |
| 4 | 20PS312 | KACHAVE NARAYAN B | 7 | 8 | 9 | 8 | 6 | 8 | 46 | 19.17 | 20 |
| 5 | 20PS313 | KADAM RUTUJA UDAY | 10 | 10 | 9 | 9 | 9 | 8 | 55 | 22.92 | 23 |
| 6 | 18PS013 | KOLEKAR MEHUL B | 6 | 7 | 8 | 7 | 6 | 8 | 42 | 17.5 | 18 |
| 7 | 20PS314 | LATE SHREYAS JITENDRA | 8 | 7.5 | 7 | 7 | 7 | 6.5 | 43 | 17.92 | 18 |
| 8 | 20PS315 | LOKHANDE SAHIL ASHOK | 9 | 8 | 8.5 | 7 | 9 | 8 | 49.5 | 20.63 | 21 |
| 9 | 19PS009 | MACHE RADHIKA SANJAY | 8.5 | 9 | 8 | 9 | 7 | 6.5 | 48 | 20 | 20 |
| 10 | 19PS010 | MANE HRUSHIKESH GORAKH | 9 | 8.5 | 9 | 9 | 9 | 9.5 | 54 | 22.5 | 23 |
| 11 | 20PS316 | MORE ROHIT RAJENDRA | 7 | 7 | 9 | 9 | 7 | 8 | 47 | 19.58 | 20 |
| 12 | 20PS317 | MULANI ARMAN DADABHAI | 8 | 6.5 | 7 | 7 | 9 | 7 | 44.5 | 18.54 | 19 |
| 13 | 20PS318 | MULAY KAIWALYA SANDIP | 8 | 8 | 8 | 9 | 9 | 8 | 50 | 20.83 | 21 |
| 14 | 18PS019 | PAROLEKAR SUNNY YATIN | 8 | 8 | 7.5 | 9 | 7 | 8 | 47.5 | 19.79 | 20 |
| 15 | 18PS020 | PASALKAR SIDDHANT D | 7 | 8 | 8 | 7 | 7 | 9 | 46 | 19.17 | 20 |
| 16 | 18PS021 | PATIL AAYUSH SHRINIWAS | 9 | 8 | 8.5 | 9 | 7 | 8 | 49.5 | 20.63 | 21 |
| 17 | 18PS023 | PATIL AKASH RANGNATH | 7.5 | 8 | 8 | 7 | 7 | 7 | 44.5 | 18.54 | 19 |
| 18 | 20PS319 | PATIL DHANARAJ SUMANT | 8 | 7 | 9 | 9 | 9 | 8 | 50 | 20.83 | 21 |


HOD Signature
Head of Department
Production Engineering
AISSMS COE, PUNE I


Faculty Signature



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COLLEGE OF ENGINEERING

ज्ञानम् सकलजगद्दिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering CAS Calculation 2022-23 (TERM -I)

Class : BE (Batch-C)

Subject: Operation Research

Name of Faculty: Veejhay Dholle


| | | | Expt-1 | | | Expt-2 | | | Expt-3 | | | Expt-4 | | Expt-5 | | Expt-6 | | |
|---------|---------|---------------------------|--------|----|---------|--------|----|---------|--------|----|---------|--------|---------|--------|----|---------|----|---------|
| Sr. No. | Roll No | Name of Students | 1 | 2 | Avg (1) | 3 | 4 | Avg (2) | 5 | 6 | Avg (3) | 7 | Avg (4) | 8 | 9 | Avg (5) | 10 | Avg (6) |
| 1 | 20PS320 | PATIL DNYANESH MUKUNDA | 6 | 8 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 |
| 2 | 20PS321 | PATIL LOKESH RAJIV | 6 | 9 | 7.5 | 7 | 9 | 8 | 9 | 10 | 9.5 | 10 | 10 | 7 | 7 | 7 | 8 | 8 |
| 3 | 19PS011 | PATIL PRASHANT GOKUL | 6 | 9 | 7.5 | 7 | 9 | 8 | 7 | 8 | 7.5 | 7 | 7 | 7 | 7 | 7 | 8 | 8 |
| 4 | 20PS322 | PAWAR GAURAV SUNIL | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| 5 | 20PS323 | PAWAR SHANKAR GANESH | 6 | 6 | 6 | 7 | 10 | 8.5 | 7 | 8 | 7.5 | 7 | 7 | 10 | 10 | 10 | 9 | 9 |
| 6 | 20PS324 | PAWAR SWEJAL RAJENDRA | 7 | 7 | 7 | 9 | 7 | 8 | 9 | 10 | 9.5 | 10 | 10 | 10 | 9 | 9.5 | 7 | 7 |
| 7 | 19PS012 | PHAD PRANAV BALIRAM | 7 | 9 | 8 | 10 | 10 | 10 | 9 | 10 | 9.5 | 10 | 10 | 7 | 9 | 8 | 9 | 9 |
| 8 | 18PS026 | RITE AKASH SATISH | 6 | 8 | 7 | 8 | 10 | 9 | 9 | 8 | 8.5 | 7 | 7 | 10 | 7 | 8.5 | 7 | 7 |
| 9 | 20PS326 | SAID SIDDHANT VISHWAS | 6 | 7 | 6.5 | 8 | 8 | 8 | 9 | 10 | 9.5 | 7 | 7 | 8 | 9 | 8.5 | 9 | 9 |
| 10 | 18PS031 | SHIVALIKAR SACHHIDANAND S | 7 | 10 | 8.5 | 9 | 10 | 9.5 | 9 | 10 | 9.5 | 10 | 10 | 7 | 9 | 8 | 10 | 10 |
| 11 | 20PS327 | SIDDIQUI ZAIN FARHATEJAJ | | 0 | 0 | | 0 | 0 | | 0 | 0 | | | | 0 | 0 | | |
| 12 | 18PS033 | SONAR PRATIK DATTATRAY | 6 | 9 | 7.5 | 8 | 10 | 9 | 10 | 8 | 9 | 10 | 10 | 7 | 9 | 8 | 10 | 10 |
| 13 | 20PS328 | SONWANE GANESH ASHOK | 7 | 7 | 7 | 8 | 7 | 7.5 | 9 | 10 | 9.5 | 8 | 8 | 7 | 8 | 7.5 | 7 | 7 |
| 14 | 19PS014 | SUROSHE KRUSHNA SHRIRAM | | 0 | 0 | | 0 | 0 | | 0 | 0 | | | | 0 | 0 | | |
| 15 | 19PS016 | THAKARE JANHAVI C | 7 | 9 | 8 | 7 | 10 | 8.5 | 8 | 10 | 9 | 8 | 8 | 7 | 10 | 8.5 | 7 | 7 |
| 16 | 20PS329 | THORAT VAIBHAV N | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 8 | 8.5 | 10 | 10 | 10 | 10 | 10 | 9 | 9 |


Head of Department
Production Engineering
AISSMS COLLEGE

| | | | Expt-1 | | | Expt-2 | | | Expt-3 | | | Expt-4 | | Expt-5 | | | Expt-6 | |
|---------|---------|------------------------|--------|----|---------|--------|----|---------|--------|----|---------|--------|---------|--------|----|---------|--------|---------|
| Sr. No. | Roll No | Name of Students | 1 | 2 | Avg (1) | 3 | 4 | Avg (2) | 5 | 6 | Avg (3) | 7 | Avg (4) | 8 | 9 | Avg (5) | 10 | Avg (6) |
| 17 | 19PS017 | WAGH RUTUJA SURESH | 9 | 10 | 9.5 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 7 | 10 | 8.5 | 7 | 7 |
| 18 | 20PS325 | ZAREKAR PRANAV SANTOSH | 7 | 9 | 8 | 9 | 9 | 9 | 9 | 10 | 9.5 | 8 | 8 | 10 | 9 | 9.5 | 8 | 8 |

Final Calculation

| Sr. No. | Roll No | Name of Students | Expt-1 | Expt-2 | Expt-3 | Expt-4 | Expt-5 | Expt-6 | Sum (60) | Out of 25 | Round off |
|---------|---------|---------------------------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| | | | Avg (1) | Avg (2) | Avg (3) | Avg (4) | Avg (5) | Avg (6) | | | |
| 1 | 20PS320 | PATIL DNYANESH MUKUNDA | 7 | 7 | 9 | 9 | 7 | 7 | 46 | 19.17 | 20 |
| 2 | 20PS321 | PATIL LOKESH RAJIV | 7.5 | 8 | 9.5 | 10 | 7 | 8 | 50 | 20.83 | 21 |
| 3 | 19PS011 | PATIL PRASHANT GOKUL | 7.5 | 8 | 7.5 | 7 | 7 | 8 | 45 | 18.75 | 19 |
| 4 | 20PS322 | PAWAR GAURAV SUNIL | 6 | 7 | 8 | 6 | 7 | 7 | 41 | 17.08 | 18 |
| 5 | 20PS323 | PAWAR SHANKAR GANESH | 6 | 8.5 | 7.5 | 7 | 10 | 9 | 48 | 20 | 20 |
| 6 | 20PS324 | PAWAR SWEJAL RAJENDRA | 7 | 8 | 9.5 | 10 | 9.5 | 7 | 51 | 21.25 | 22 |
| 7 | 19PS012 | PHAD PRANAV BALIRAM | 8 | 10 | 9.5 | 10 | 8 | 9 | 54.5 | 22.71 | 23 |
| 8 | 18PS026 | RITE AKASH SATISH | 7 | 9 | 8.5 | 7 | 8.5 | 7 | 47 | 19.58 | 20 |
| 9 | 20PS326 | SAID SIDDHANT VISHWAS | 6.5 | 8 | 9.5 | 7 | 8.5 | 9 | 48.5 | 20.21 | 21 |
| 10 | 18PS031 | SHIVALIKAR SACHHIDANAND S | 8.5 | 9.5 | 9.5 | 10 | 8 | 10 | 55.5 | 23.13 | 24 |
| 11 | 20PS327 | SIDDIQUI ZAIN FARHATEJAJ | | | | | | | | | |
| 12 | 18PS033 | SONAR PRATIK DATTATRAY | 7.5 | 9 | 9 | 10 | 8 | 10 | 53.5 | 22.29 | 23 |
| 13 | 20PS328 | SONWANE GANESH ASHOK | 7 | 7.5 | 9.5 | 8 | 7.5 | 7 | 46.5 | 19.38 | 20 |
| 14 | 19PS014 | SUROSHE KRUSHNA SHRIRAM | | | | | | | | | |
| 15 | 19PS016 | THAKARE JANHAVI C | 8 | 8.5 | 9 | 8 | 8.5 | 7 | 49 | 20.42 | 21 |
| 16 | 20PS329 | THORAT VAIBHAV N | 10 | 10 | 8.5 | 10 | 10 | 9 | 57.5 | 23.96 | 24 |
| 17 | 19PS017 | WAGH RUTUJA SURESH | 9.5 | 10 | 8 | 8 | 8.5 | 7 | 51 | 21.25 | 22 |
| 18 | 20PS325 | ZAREKAR PRANAV SANTOSH | 8 | 9 | 9.5 | 8 | 9.5 | 8 | 52 | 21.67 | 22 |


 HOD Signature
 Head of Department
 Production Engineering
 AISSMS COE, PUNE 1


 Faculty Signature



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ज्ञानम् सफलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering

Continuous Assessment sheet : TERM-III Academic Year: 2022-23

CLASS: TE DIV: A BATCH: A SUBJECT: KDM FACULTY NAME: Veejay Dholle

| SN | Roll No. | Name of the Student | Expt. No.: 1 | | | | | Expt. No.: 2 | | | | | Expt. No.: 3 | | | | | Expt. No.: 4 | | | | | Expt. No.: 5 | | | | |
|----|----------|------------------------|--------------|----|---|-------------|------|--------------|----|---|-------------|------|--------------|----|---|-------------|------|--------------|----|---|-------------|------|--------------|----|---|-------------|------|
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 21PS301 | BHAGAT KRUSHNA VIJAY | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 4 | 3 | 09 | Shah |
| 2 | 21PS302 | BHOSALE OMKAR MANOJ | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 4 | 3 | 09 | Shah |
| 3 | 20PS001 | BHOSALE SAHIL MANOJ | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 4 | 3 | 09 | Shah |
| 4 | 17PS011 | DAIVE PRANAV SUBHASH | - | - | - | - | | - | - | - | - | | - | - | - | - | | - | - | - | - | | - | - | - | - | |
| 5 | 21PS303 | DESHMUKH SATYAJEET G | 2 | 4 | 3 | 09 | Shah | 2 | 4 | 3 | 09 | Shah | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah |
| 6 | 21PS304 | DESHMUKH SHRIGANESH P | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 4 | 09 | Shah | 2 | 4 | 3 | 09 | Shah | 2 | 4 | 3 | 09 | Shah | 2 | 4 | 3 | 09 | Shah |
| 7 | 21PS305 | DHAKA PURVESH PRAVIN | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah |
| 8 | 20PS002 | DHOKARE SURAJ RAMDAS | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah |
| 9 | 20PS003 | GHAROTE SAISHNU SANJAY | 2 | 4 | 4 | 10 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah |
| 10 | 20PS004 | JADHAO SHIVRAJ HEMANT | - | - | - | - | | - | - | - | - | | - | - | - | - | | - | - | - | - | | - | - | - | - | |
| 11 | 20PS005 | MANDHARE ATHARVA R | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 4 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 2 | 3 | 08 | Shah |
| 12 | 20PS006 | MOHD TOUSEEF | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 2 | 3 | 08 | Shah |
| 13 | 20PS007 | PATIL ADITYA KAILAS | 2 | 3 | 4 | 09 | Shah | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 4 | 09 | Shah | 2 | 3 | 3 | 08 | Shah |
| 14 | 20PS008 | TADAS YASH JAGDISH | 2 | 4 | 4 | 10 | Shah | 2 | 4 | 3 | 09 | Shah | 2 | 3 | 3 | 08 | Shah | 2 | 3 | 4 | 09 | Shah | 2 | 3 | 3 | 08 | Shah |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejay Dholle

HoD Signature:

Head of Department
Production Engineering
AISSMS COE, PUNE 1



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Production Engineering

Continuous Assessment sheet : TERM-II Academic Year: 2022-23

CLASS: TE DIV: A BATCH: A SUBJECT: KDM FACULTY NAME: Veejhay Dholle

| SN | Roll No. | Name of the Student | Expt. No.: 6 | | | | | Expt. No.: | | | | | Expt. No.: | | | | | Expt. No.: | | | | | Expt. No.: | | | | |
|----|----------|------------------------|--------------|----|---|-------------|----|------------|----|---|-------------|----|------------|----|---|-------------|----|------------|----|---|-------------|----|------------|----|---|-------------|----|
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 21PS301 | BHAGAT KRUSHNA VIJAY | 2 | 4 | 3 | 09 | | | | | 51 | | | | | | | | | | | | | | | | |
| 2 | 21PS302 | BHOSALE OMKAR MANOJ | 2 | 4 | 3 | 09 | | | | | 51 | | | | | | | | | | | | | | | | |
| 3 | 20PS001 | BHOSALE SAHIL MANOJ | 2 | 4 | 3 | 09 | | | | | 51 | | | | | | | | | | | | | | | | |
| 4 | 17PS011 | DAIVE PRANAV SUBHASH | - | - | - | - | | | | | - | | | | | | | | | | | | | | | | |
| 5 | 21PS303 | DESHMUKH SATYAJEET G | 2 | 4 | 3 | 09 | | | | | 52 | | | | | | | | | | | | | | | | |
| 6 | 21PS304 | DESHMUKH SHRIGANESH P | 2 | 3 | 3 | 08 | | | | | 55 | | | | | | | | | | | | | | | | |
| 7 | 21PS305 | DHAKA PURVESH PRAVIN | 2 | 3 | 4 | 09 | | | | | 50 | | | | | | | | | | | | | | | | |
| 8 | 20PS002 | DHOKARE SURAJ RAMDAS | 2 | 3 | 3 | 08 | | | | | 48 | | | | | | | | | | | | | | | | |
| 9 | 20PS003 | GHAROTE SAISHNU SANJAY | 2 | 3 | 4 | 09 | | | | | 53 | | | | | | | | | | | | | | | | |
| 10 | 20PS004 | JADHAO SHIVRAJ HEMANT | - | - | - | - | | | | | - | | | | | | | | | | | | | | | | |
| 11 | 20PS005 | MANDHARE ATHARVA R | 2 | 3 | 3 | 08 | | | | | 49 | | | | | | | | | | | | | | | | |
| 12 | 20PS006 | MOHD TOUSEEF | 2 | 3 | 3 | 08 | | | | | 49 | | | | | | | | | | | | | | | | |
| 13 | 20PS007 | PATIL ADITYA KAILAS | 2 | 3 | 4 | 09 | | | | | 52 | | | | | | | | | | | | | | | | |
| 14 | 20PS008 | TADAS YASH JAGDISH | 2 | 3 | 4 | 09 | | | | | 54 | | | | | | | | | | | | | | | | |
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R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejhay Dholle

HoD Signature:

Head of Department
Production Engineering
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Department of Production Engineering

Continuous Assessment Sheet : TERM-II Academic Year: 2022-23

CLASS: TE DIV: A BATCH: B SUBJECT: KDM FACULTY NAME: Veejhay Dholle

| SN | Roll No. | Name of the Student | Expt. No.: 1 | | | | SS | Expt. No.: 2 | | | | SS | Expt. No.: 3 | | | | SS | Expt. No.: 4 | | | | SS | Expt. No.: 5 | | | | SS |
|----|----------|--------------------------|--------------|----|---|-------------|---------|--------------|----|---|-------------|---------|--------------|----|-----|-------------|---------|--------------|----|-----|-------------|---------|--------------|----|-----|-------------|---------|
| | | | R | PP | U | Total Marks | | R | PP | U | Total Marks | | R | PP | U | Total Marks | | R | PP | U | Total Marks | | R | PP | U | Total Marks | |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 21PS306 | GAIKWAD PRATIK TRUSHANT | 2 | 4 | 3 | 09 | Pratik | 2 | 4 | 3 | 09 | Pratik | 2 | 4 | 3 | 09 | Pratik | 2 | 4 | 3 | 09 | Pratik | 2 | 4 | 3 | 09 | Pratik |
| 2 | 21PS307 | GORE RAHUL RAJU | 0 | 3 | 2 | 06 | Rahul | 0 | 3 | 2 | 06 | Rahul | 0 | 3 | 2 | 06 | Rahul | 0 | 3 | 2 | 06 | Rahul | 0 | 3 | 2 | 06 | Rahul |
| 3 | 21PS308 | KACHI ADITYA GIRISH | 2 | 3 | 2 | 07 | Kachi | 2 | 3 | 2 | 07 | Kachi | 2 | 3 | 2 | 08 | Kachi | 2 | 3 | 2 | 08 | Kachi | 2 | 3 | 2 | 07 | Kachi |
| 4 | 21PS309 | KALE PRANAV PRATAP | 2 | 3 | 4 | 09 | Kale | 2 | 4 | 4 | 10 | Kale | 2 | 4 | 3.5 | 9.5 | Kale | 2 | 4 | 3.5 | 9.5 | Kale | 2 | 3 | 3 | 08 | Kale |
| 5 | 21PS310 | KARDILE GAURAV SANTOSH | 2 | 3 | 2 | 07 | Kardile | 2 | 3 | 2 | 07 | Kardile | 2 | 3 | 2 | 07 | Kardile | 2 | 3 | 2 | 07 | Kardile | 2 | 3 | 2 | 07 | Kardile |
| 6 | 21PS311 | KHAN MUHAMMED JAWWAD | 2 | 3 | 2 | 07 | Khan | 2 | 3 | 3 | 08 | Khan | 2 | 3 | 3 | 08 | Khan | 2 | 3 | 3 | 08 | Khan | 2 | 3 | 3 | 08 | Khan |
| 7 | 21PS312 | MAHAJAN SHARDUL RAVINDRA | 2 | 3 | 3 | 08 | Maha | 2 | 3 | 3 | 08 | Maha | 2 | 3 | 3 | 08 | Maha | 2 | 3 | 3 | 08 | Maha | 2 | 3 | 3 | 08 | Maha |
| 8 | 21PS313 | MORE NILESH SANJAY | 2 | 3 | 3 | 08 | More | 2 | 3 | 2 | 07 | More | 2 | 3 | 2 | 07 | More | 2 | 3 | 2 | 07 | More | 2 | 3 | 2 | 07 | More |
| 9 | 21PS314 | NAIK RUTURAJ VIJAY | 2 | 3 | 3 | 08 | Naik | 2 | 2 | 3 | 08 | Naik | 2 | 3 | 3 | 08 | Naik | 2 | 3 | 3 | 08 | Naik | 2 | 3 | 3 | 08 | Naik |
| 10 | 21PS315 | PARNERKAR ATHARVA UMESH | 2 | 3 | 3 | 08 | Parn | 2 | 3 | 3 | 08 | Parn | 2 | 3 | 3.5 | 8.5 | Parn | 2 | 3 | 3.5 | 8.5 | Parn | 2 | 3 | 3.5 | 8.5 | Parn |
| 11 | 21PS316 | RATHOR KUNAL SURESHCHAND | 2 | 3 | 3 | 08 | Rath | 2 | 3 | 3 | 08 | Rath | 2 | 3 | 2 | 07 | Rath | 2 | 3 | 2 | 07 | Rath | 2 | 3 | 2 | 07 | Rath |
| 12 | 21PS317 | SONAWANE SANKET AJAY | 2 | 3 | 3 | 08 | Son | 2 | 3 | 3 | 08 | Son | 2 | 3 | 3 | 08 | Son | 2 | 3 | 3 | 08 | Son | 2 | 3 | 3 | 08 | Son |
| 13 | 21PS318 | TALEKAR PRATHMESH MOHAN | 2 | 3 | 3 | 08 | Tale | 2 | 2 | 3 | 08 | Tale | 2 | 3 | 3 | 08 | Tale | 2 | 3 | 3 | 08 | Tale | 2 | 2 | 2 | 08 | Tale |
| 14 | 21PS319 | THAKUR EKTA SHANMUKH | 2 | 4 | 4 | 10 | Thak | 2 | 3 | 4 | 9 | Thak | 2 | 4 | 3 | 9 | Thak | 2 | 3 | 4 | 9 | Thak | 2 | 4 | 3 | 09 | Thak |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejhay Dholle

HoD Signature:

Head of Department
Production Engineering
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Department of Production Engineering

Continuous Assessment Sheet : TERM-II Academic Year: 2022-23

CLASS: TE

DIV: A

BATCH: B

SUBJECT: KDM

FACULTY NAME: Veejhay Dholle

| SN | Roll No. | Name of the Student | Expt. No.: 1 | | | | | Expt. No.: 2 | | | | | Expt. No.: 3 | | | | | Expt. No.: 4 | | | | | Expt. No.: 5 | | | | |
|----|----------|--------------------------|--------------|----|---|-------------|----|--------------|----|---|-------------|----|--------------|----|---|-------------|----|--------------|----|---|-------------|----|--------------|----|---|-------------|----|
| | | | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS | R | PP | U | Total Marks | SS |
| | | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | | 2 | 4 | 4 | 10 | |
| 1 | 21PS306 | GAIKWAD PRATIK TRUSHANT | 2 | 4 | 3 | 09 | 2 | | | | 54 | | | | | | | | | | | | | | | | |
| 2 | 21PS307 | GORE RAHUL RAJU | 2 | 2 | 3 | 07 | 2 | | | | 37 | | | | | | | | | | | | | | | | |
| 3 | 21PS308 | KACHI ADITYA GIRISH | 2 | 3 | 2 | 07 | 2 | | | | 44 | | | | | | | | | | | | | | | | |
| 4 | 21PS309 | KALE PRANAV PRATAP | 2 | 3 | 4 | 09 | 2 | | | | 53 | | | | | | | | | | | | | | | | |
| 5 | 21PS310 | KARDILE GAURAV SANTOSH | 2 | 3 | 2 | 07 | 2 | | | | 46 | | | | | | | | | | | | | | | | |
| 6 | 21PS311 | KHAN MUHAMMED JAWWAD | 2 | 3 | 3 | 08 | 2 | | | | 48 | | | | | | | | | | | | | | | | |
| 7 | 21PS312 | MAHAJAN SHARDUL RAVINDRA | 2 | 3 | 3 | 08 | 2 | | | | 48 | | | | | | | | | | | | | | | | |
| 8 | 21PS313 | MORE NILESH SANJAY | 2 | 3 | 2 | 07 | 2 | | | | 43 | | | | | | | | | | | | | | | | |
| 9 | 21PS314 | NAIK RUTURAJ VIJAY | 2 | 3 | 2 | 08 | 2 | | | | 48 | | | | | | | | | | | | | | | | |
| 10 | 21PS315 | PARNERKAR ATHARVA UMESH | 2 | 3 | 4 | 09 | 2 | | | | 51 | | | | | | | | | | | | | | | | |
| 11 | 21PS316 | RATHOR KUNAL SURESHCHAND | 2 | 3 | 2 | 07 | 2 | | | | 44 | | | | | | | | | | | | | | | | |
| 12 | 21PS317 | SONAWANE SANKET AJAY | 2 | 3 | 3 | 08 | 2 | | | | 48 | | | | | | | | | | | | | | | | |
| 13 | 21PS318 | TALEKAR PRATHMESH MOHAN | 2 | 2 | 2 | 06 | 2 | | | | 46 | | | | | | | | | | | | | | | | |
| 14 | 21PS319 | THAKUR EKTA SHANMUKH | 2 | 3 | 3 | 08 | 2 | | | | 54 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

R: Marks for Regularity (02) (Th. & Pr. attendance to be observed) PP: Marks for Performance & Presentation (04) U: Marks for Understanding (04) SS: Student's Signature

Faculty Name & Signature: Veejhay Dholle

HoD Signature:

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Production Engineering
AISSMS COE, PUNE 1

Course End Survey: Blockchain Technology Term-I 2022-23

89 responses

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Full Name (Surname First)

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More

Rathod Disha Rajesh

Thorat Shruti

Bhosale Atharva Abhay

Rohan Dayal

Suryawanshi vedant kishor

Omkar Jagtap

Jagtap Shreya Atul

Mulik Abhishek Sanjay

GHODEKAR NETRA YASHWANT

Dhote Samiksha Tilakchand

Shaikh Zaki Ahmed Khalid

Pawar Atharva Samadhan

Paigude Tanvi

Devanshi Pankaj Wadkar

- Alex Sunny

PINGALKAR VENKATESH SUNIL

Wagh Purva Chandrakant

DANDGE SHRIKANT ASHOK

Gatkal Shruti Vishnu


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Borole Pournima vijay

Roy sagnik

Ghodake Shubham Shivaji

Mahant Wagh

Gaikwad Uday Vijaysinh

Pinagle Pratik

Dhumal Prajakta Dadabhau

Gunjan Sharma

Mahajan Abhijit Rajendra

Bhalchim Priya Vishwas

Tejas Shivaji Shinde

Bhujbal Aashay

SHEGAR DIPTI SUNIL

Tandulwadkar Aditya Sunil

Nikam Ritesh Sanjeevan

Jagtap Pratik Vinod

GAIKWAD SAKSHI ATUL

Dabir Aishwarya Sharad

Jagtap Atharva Mahesh

Vaishnavi Bhagde

Saw Praveenkumar Bhuvaneshwar

Chaudhare Akash


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More Sameedha

Gadge Sahil Nivrutti

Gaurav Gokul Khaire

Panch Laxmi Mukund

Aishwarya Patil

Bhalerao Aditya Avinash

Khandelwal Harsh Pramod

RATHOD PRANAV BANDU

MEHTA RAJ TUSHAR

Kalaskar Rohan Rajendra

Harsh Tiwari

Jambhulkar Tushar Raju

Soman Bhaskar Dhaval

Shah Chirag Rahul

MACHE PRASAD PARSHURAM

Choudhary Vedant

Thakare Tejal Vinayak

Arvind Sudarshan

Zimal Sudarshan Ananda

Sharma uday

Badve Shridhan Sanjay

Gidwani Sagar Rajesh


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Jadhav Kirti Pradip

Deokar Hrishikesh Maruti

Labade Srushti Rajesh

Ghadge Indrajeet Subhash

Swarupa Bagade

Eksambekar Yash Sagar

Awati saifali shekali

Kunjeer Samarjeet Santosh

Kakani Pranav Arvind

Sharma Priyanshu

Onkar Anil Mirajkar

Yadnik Abhilash

Amogh Chauhan

Patil Aarya

Mahajan Bhushan Laxman

Sadiya Shaikh

Bangali Aditya Prashant

Admuthe Mitali Manish

Gadkari Gaurav Sudhir

Ahire Sejal Kishor

Ligade Pooja Shahaji

Aryan khetarpal


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Gaware Parth

Gupta Tanuj

Bhosale Adarsh Avinash


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Roll Number

89 responses

19CS028

19CS013

19CS059

19C0010

19C0060

19C0064

19C0033

19C0035

19C0051

20CS307

19C0018

19C0062

19C0054

19C0066

19CS061

19C0004

19CS036

19CS062

19C0013

20C0304


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20CO302

19CO061

20CO305

19CO071

19CO024

19CO056

19CO019

19CO063

20CO306

20CO301

19cs051

19CO001

19CS050

19CS057

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19CO034

20CO303

19CO012

19CO031

19CS005

19CS044

19CS002


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19CS040

19CO021

19CS023

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19cs006

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19CO028

19CO036

19CS054

19CS045

19CS025

19CS011

19CO068

19CO006

19CS066

19CO070

19CO007

19CS018


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19CO030

19CO015

20CS308

19CO025

20CS303

19CO020

20CS302

17CS025

19CO038

19CO057

19CS030

19CO072

19CO005

19CS033

19CS026

19CS048

19CS004

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19CO022

20CS301

20CS309

18CS002



19CS017

18CS019

20CS304


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Mobile Number

89 responses

9673607754

7038856229

8788829811

8766421314

9518721636

9359830741

9850971235

8975454360

8080550264

8983502441

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7385552451

9307283905

9284074730

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9168336236

8530211311

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+917448143947

8788042276

8308270470

09284719205

9823366251

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9146230095

7666856439

9373345328

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9497588490

9766588867

9324350209

8080075752

9130860796

+918788288861

8550954539

9404280253

8830042240

9763162185

06393718762

9518393801

8698019457

7387806622

09075884852

7869521455

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7620119698

9112382881

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8080998255

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7051212384

7877465406

9518732981

9882576075

8668403022

8766458704

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7558428011

7798518518

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+918888835398


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09561919915

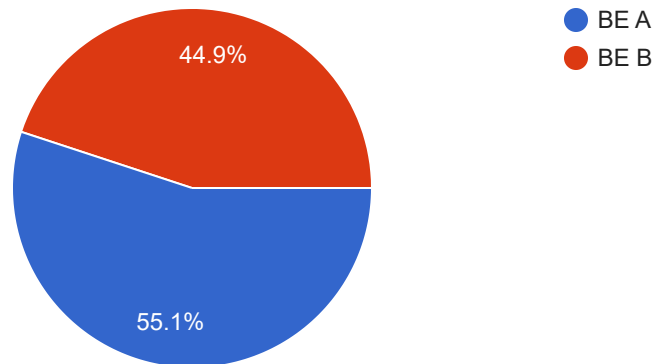
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Class

 Copy

89 responses

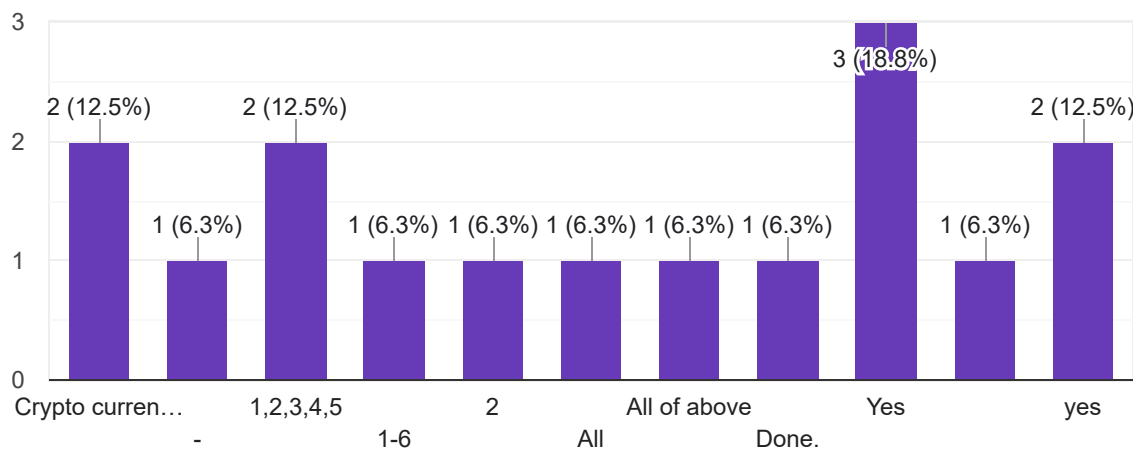


Course Objectives of BT are

 Copy

1. Technology behind Blockchain
2. Crypto currency, Bitcoin and Smart contracts
3. Different consensus algorithms used in Blockchain
4. Real-world applications of Blockchain
5. To analyze Blockchain Ethereum Platform using Solidity
6. To Describe Blockchain Case Studies

16 responses

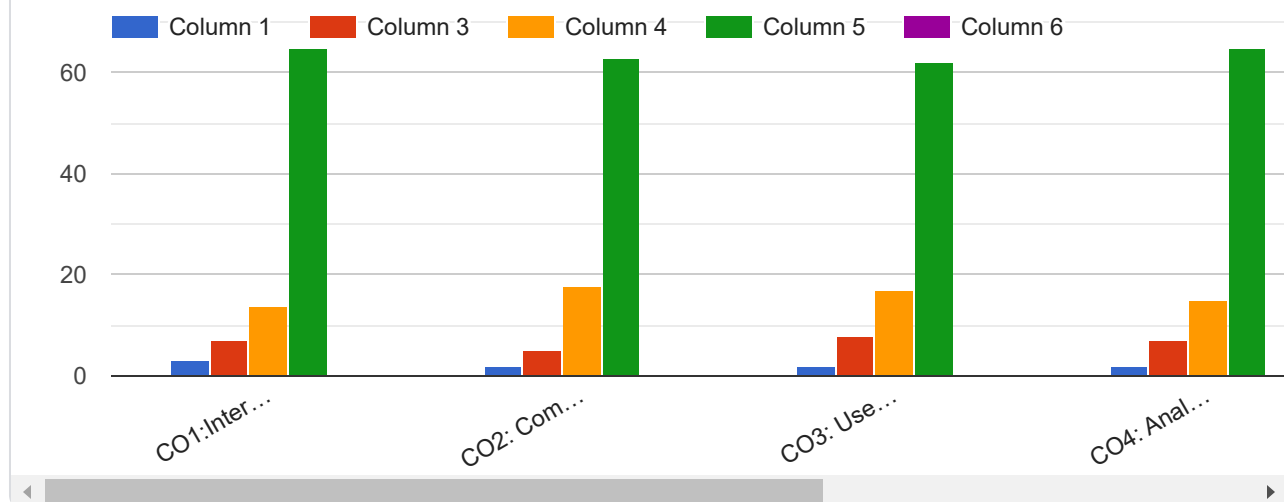



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Give the rating on below Course Outcomes in the scale 1 to 5

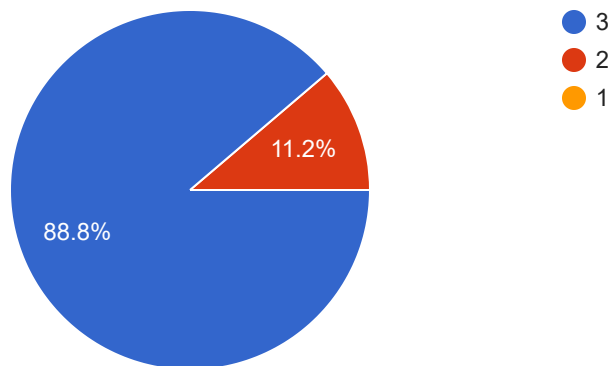
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The course and subject matter were well organized and communicated effectively

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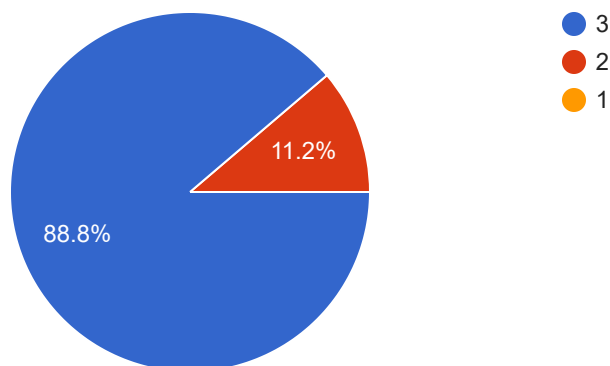
89 responses



Tests, assignments/practical/Projects were useful and grading was fair

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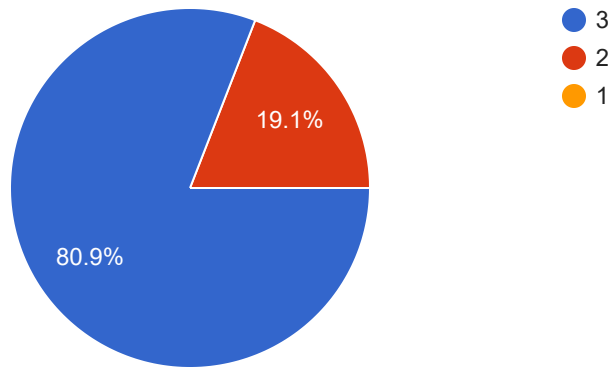
89 responses



Instructional approach(es) used was (were) appropriate to the course

 Copy

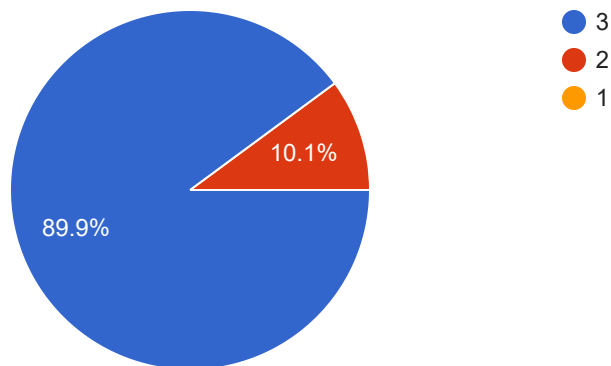
89 responses



You gave your best efforts in completing Lab work and assignments

 Copy

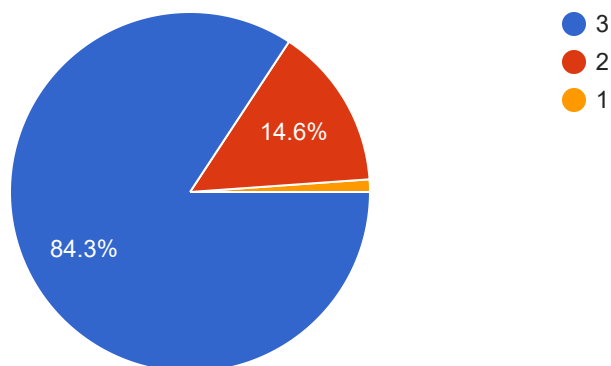
89 responses



Teacher / Lab asst was (were) helpful in assisting with problems and difficulties in the lab

 Copy

89 responses



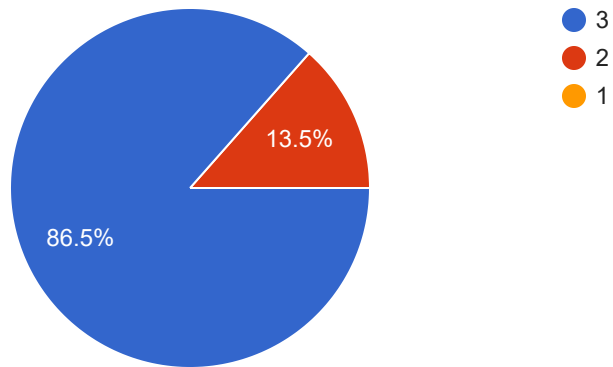

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Teacher motivated you to do your best work

 Copy

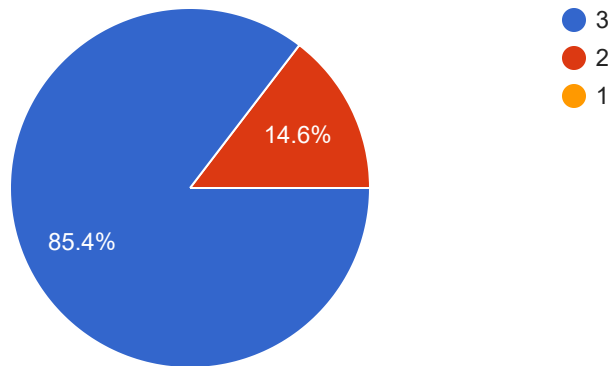
89 responses



Space and facilities were adequate for required activities

 Copy

89 responses


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What was the most effective part of this course?

89 responses

.

Blockchain

-

Everything

NA

Learning

Practical knowledge of cryptocurrency

Understanding

Interactive Teaching

Yes

The learning and doubts solving was the effective part.

Understandable

Learning about latest new technology

The concepts were excellently done

Learning about cryptography

Everything

Blockchain

Learning new techniques

Every topic was explained clearly with help of examples.

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Communication

Clear understanding of blockchain technology

Course Itself

Good

All the part was effective but I like Solidity part

All the part was effective, all cryptocurrency related part, I felt effective

--

The practicals

Crypto currency

Teacher

Theory and practical lecture

Learning ethereum theoretically as well as practically

I got to learn how cryptocurrency actually works...

The lectures were exciting and more teacher and student interactions based on blockchain technology realtime were good we understood many concepts through it.

Interactive teaching, Detailed teaching

Practicals

Theory subject, Practical were effective

Ppts

The syllabus

The teaching technique

Whole course was effective


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Got to learn new technologies of BT

Ethereum and to know about cryptocurrency

The course and subject matter were well organized and communicated effectively.

Learning blockchain, How Digital Currency works

Learning how digital currency works, smart contracts and different algorithms

Blockchain Technology

Theory

Teching

Technology behind Blockchain, Crypto currency, Bitcoin and Smart contracts

.Technology behind Blockchain

Crypto currency, Bitcoin and Smart contracts

The simplified methods of teaching along with personal attention to every student was helpful and impressive.

Every lecture was a effective

1) Teaching Technique 2) Compare the working of different blockchain platforms

~

Learnig about the blockchain technology

Knowing about blockchain and technology

Learning

Got to know about Crypto currency

Blockchain Overview

Practical learnings, effective use


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Everything was substantial

Blockchain presentations

Timely test and assignment were taken

Etherium

Concepts Of Blockchain

Theory Lectures

layers

Decentralization , Bitcoin, Cryptocurrency

Theory

Learning in-depth

Hand on practicals

Blockchain Network , Cryptocurrency



What are your suggestions, if any, for changes that would improve this course?

Your answer

89 responses

No

None

NA

.

-

No suggestions

No suggestions

Na

Concepts were cleared

Non

Yes

Understandable

Ethereum

Good

NO

--

none

None.


Head of Department
H.O.D.
Computer Engg. Dept
AISSMS COE Pune



No I don't think so if any changes need to be made

No Change

Nono

More video oriented teaching

no

Teaching

None, the course is prefect as is

Lab assignment practice

Nothing

Nothing

Good as it is

More focus on practicals

N.a

No comments

More practicals

Integrating blockchain into more daily life activities of students

NONE



Do you suggest any addition or deletion in the syllabus that would have made learning more effective?

89 responses

No

None

NA

.

-

Na

No suggestions

None

No

Addition of more practical is required

Yes

Understandable

Implementation

Good

--

none

None.

Not require


Head of Department
H.O.D.
Computer Engg. Dept.
AISSMS COE Pune



Teaching

None, the course is prefect as is

Not really.

No suggestions

no

Ok till now

N.a

Deployment of new crypto currency

na

There are too many Hashing algorithms in chapter one , they are not needed

NONE

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NMCP- COURSE END SURVEY 22-23 Term II

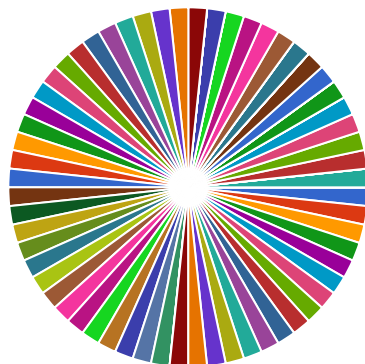
60 responses

[Publish analytics](#)

Name of student

 Copy

60 responses



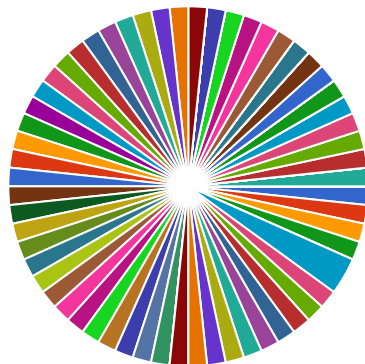
- AMIR HAMZA
- ANJANA B RAJAN
- AWASARMAL BHAVANA RA...
- BHAGAT SAMRUDDHI MAH...
- BIDGAR CHETAN UTTAM
- BURKUL ABHIJIT BABAN
- CHAITANYA PATIL
- DEOKAR SAKSHI VIKRAM

▲ 1/10 ▼

Roll Number of student

 Copy


60 responses



- 21EL001
- 21EL002
- 22EL301
- 21EL003
- 21EL004
- 21EL005
- 21EL006
- 21EL007

▲ 1/10 ▼

A.COURSE OUTCOMES

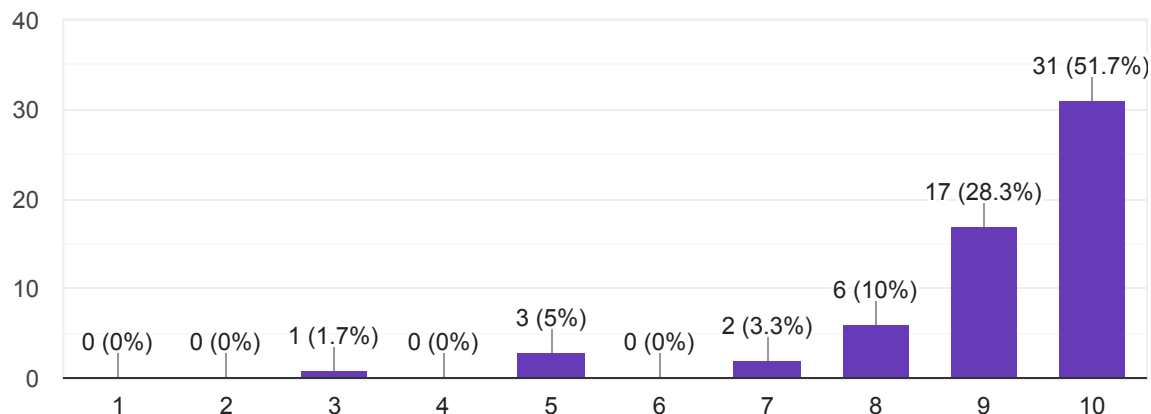

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Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune



Were you able to Understand the basic principle of numerical computation, to demonstrate the errors in computation and to interpret and apply the concept of roots of an equation using Descarte's rule of signs, intermediate value theorem and Birge vieta method.

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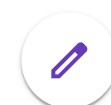
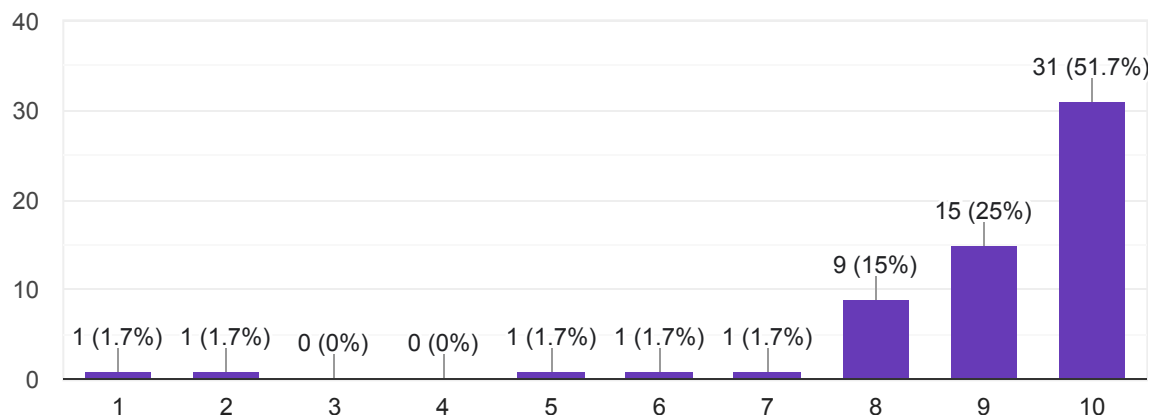
60 responses



Were you able to Solve transcendental and polynomial equations using appropriate numerical methods from Bisection, Regula Falsi and Newton Raphson methods and Utilize least square approximation to fit the given data to the equation of straight line or parabola.

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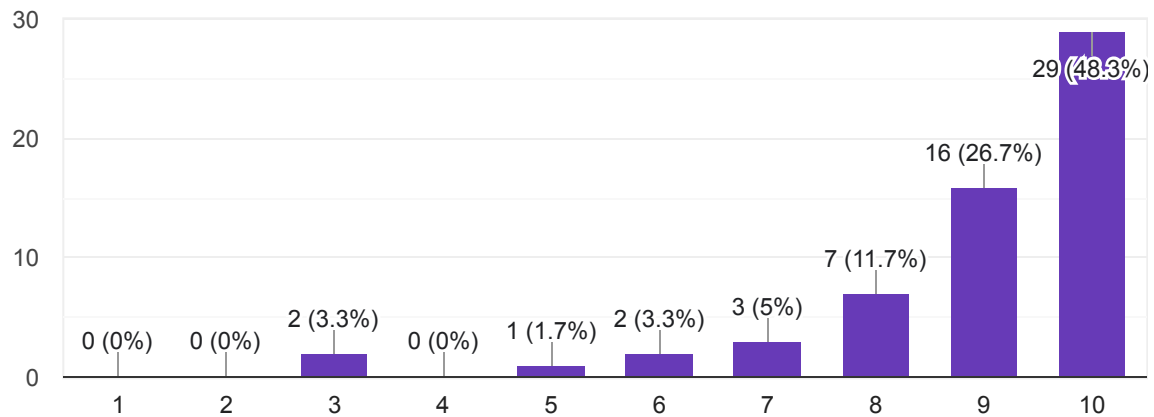
60 responses



Were you able to Apply Newton's forward, backward, central and divided difference interpolation formula for the interpolation with equal and unequal intervals.

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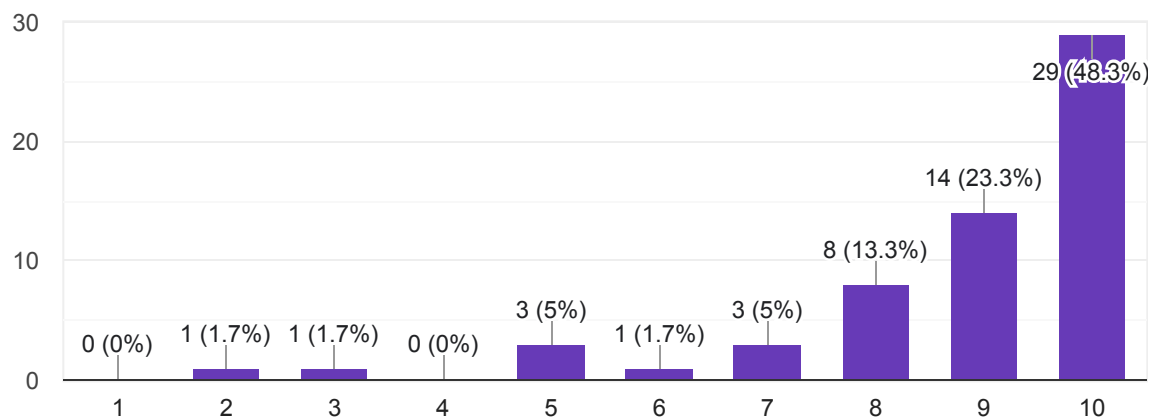
60 responses




Were you able to Apply Newton's forward/backward interpolation formula for numerical differentiation & Trapezoidal and Simpson's methods for numerical integration.

 Copy

60 responses



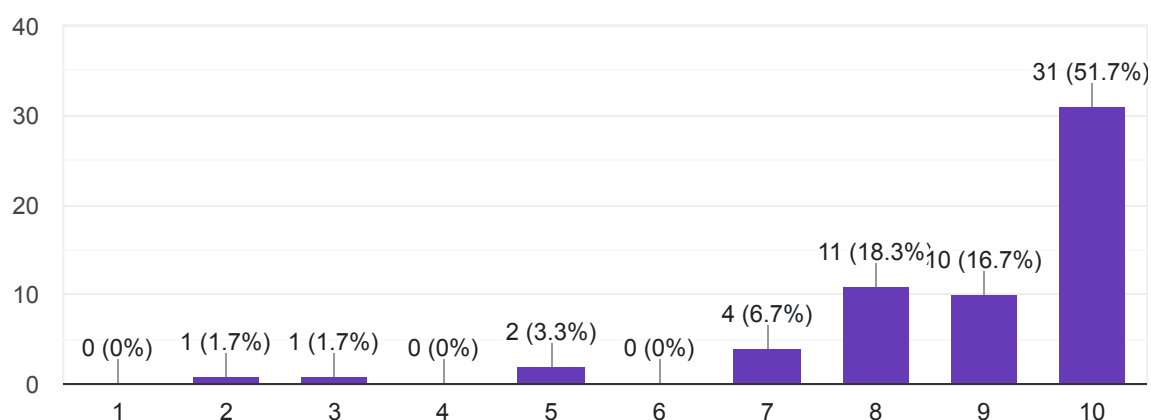

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Were you able to Apply direct and iterative numerical methods to solve linear simultaneous equations and evaluate Matrix inversion using Gauss Jordan Method.

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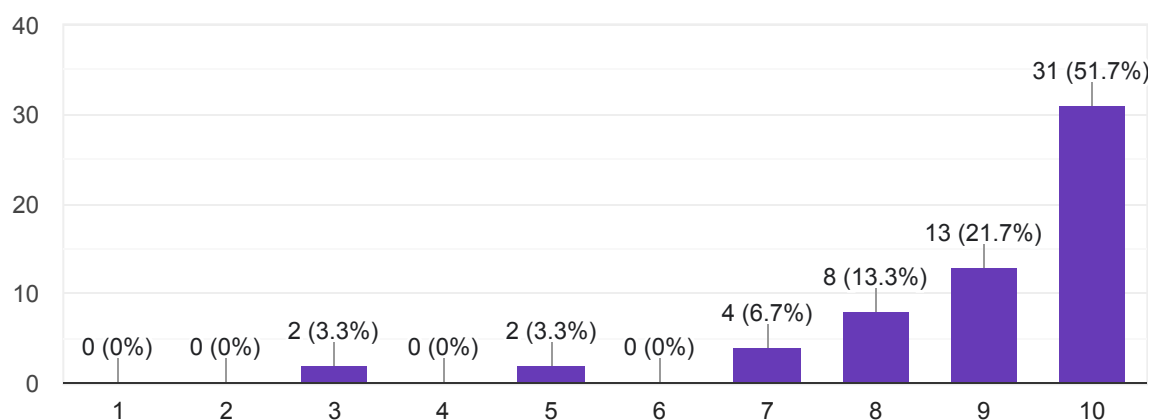
60 responses




Were you able to Solve the first and second order ODE using Taylor Series, Euler's and Runge Kutta numerical methods

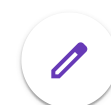
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60 responses



B. COURSE DELIVERY AND STUDENT PARTICIPATION

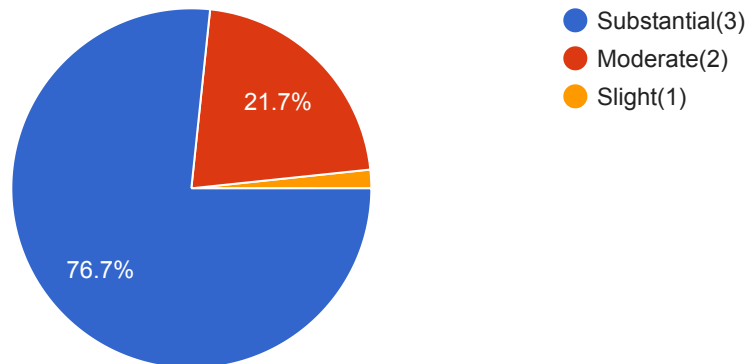

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AISSMS College of Engineering, Pune



The course and subject matter were well organized and communicated effectively

 Copy

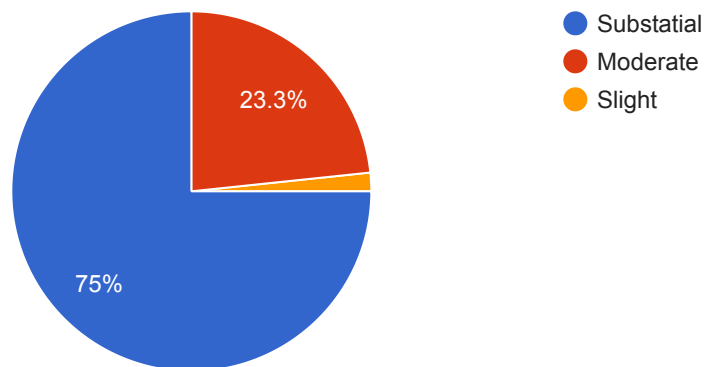
60 responses



Tests, assignments/practical/Projects were useful and grading was fair

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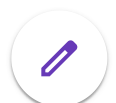
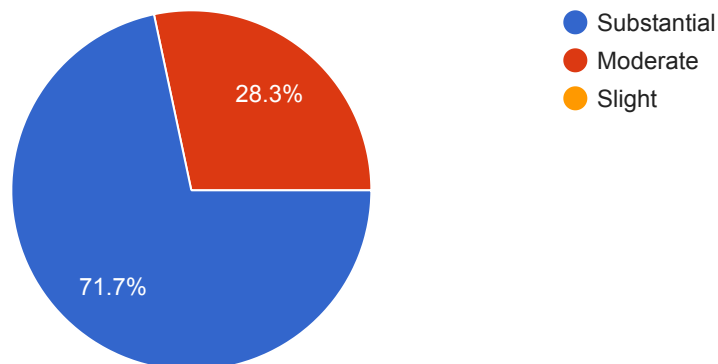
60 responses



instructional approach(es) used was (were) appropriate to the course

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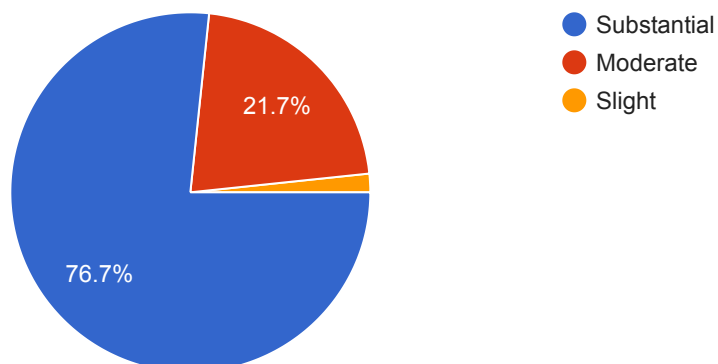
60 responses



Teacher was helpful in assisting problems and difficulty faced in class room and Laboratory

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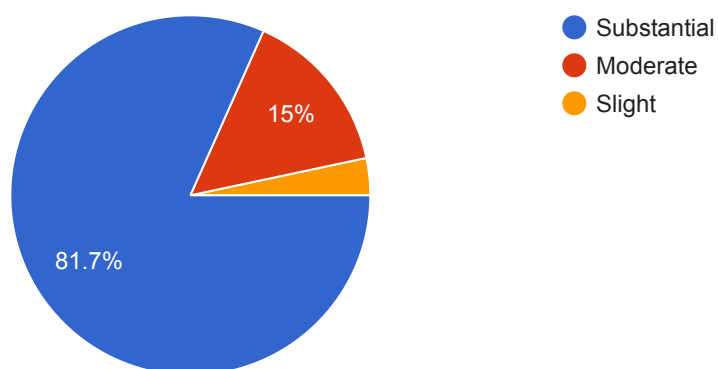
60 responses



Teacher motivated you to do your best work

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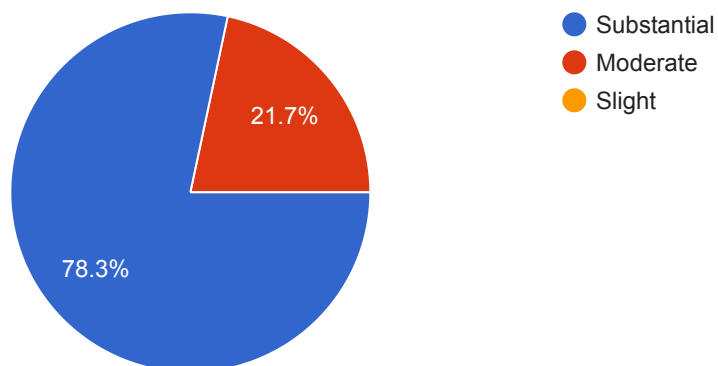
60 responses




Lab facilities were adequate for required activities

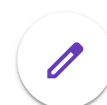
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60 responses



C:Remarks/Suggestion(Written response)


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Electric Engg Dept
Head
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AISSMS College of Engineering, Pune



1. What was the most effective part of this course?

41 responses

.

Teaching

-

No

Solving problems in class

Solving ODE

Birge vetan method

Numerical solution and solving

To program the solution of the problem in python

Finding appropriate roots and solutions of equation using different numerical methods

Now are able to solve various equations using python programming

The numerical methods were the most effective part of this course.

Teaching

Class discussions

Python programming and methods

Teaching methods, and the faculty interaction with students

Python Programming

Practical

Problem solving

Python programming


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Electrical Engg Dept
Head

Department of Electrical Engineering
AISSMS College of Engineering, Pune



Problem solving with mam

It's outcome

Numerical

Using programming language for solving numerical

Programming

This subject gives us brief study about Net work analysis

Solving complex numerical in easy way

Understanding

The method teach by staff

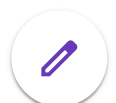
After each and every practical is taught. We got chance to perform as well and to correct our mistakes. That was helpful

Knowledge about python

Vadi mam

Practical sessions

Practical session



2. What are your suggestions, if any, for changes that would improve this course?

46 responses

No

Nothing

.

-

No as such

No suggestions

Everything was satisfactory

All is Better

None

NA

None

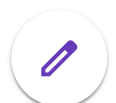
Na

No suggestion

The time period

Nope!

Ni



3. Do you suggest any addition or deletion in the syllabus that would have made learning more effective?

46 responses

No

.

-

No suggestions

Each and every part and syllabus is to the point ...No addition required.

No as such

Taylor's series

Exclude topics that are outdated or not needed

NA

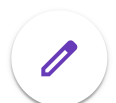
None

Na

Everything was good

Nope!

No



4. Have you observed lack of facilitates which affected course learning? If Yes, mention below

44 responses

No

.

-

No everything was provided as per the requisite .

No as such

no

Less Numerical practice in class due to lack of time

Na

Nope!

No

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COURSE END SURVEY - EIDCBM -Term I 22-23

59 responses

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Name the student

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49 responses



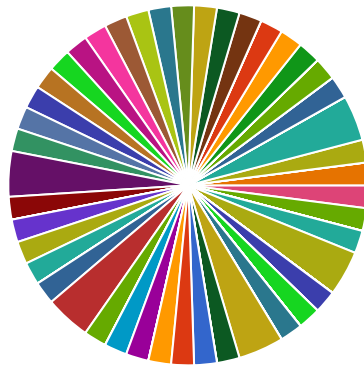
- ACHAL JAYANT TAPRE
- AHIRE PRASAD KAILAS
- AJIT BALASAHEB SAWARE
- AMBHORE PIYUSH BABURAO
- ANDHARE ABHISHEK RAJE...
- ANIKET RANJAN SAHU
- ASHTEKAR MANAS MUKUND
- ATHAWALE SAHIL SANJAY

▲ 1/10 ▼

Roll Number


 Copy

49 responses



- 20EL001
- 21EL301
- 20EL002
- 21EL302
- 21EL303
- 20EL003
- 20EL004
- 20EL005

▲ 1/10 ▼

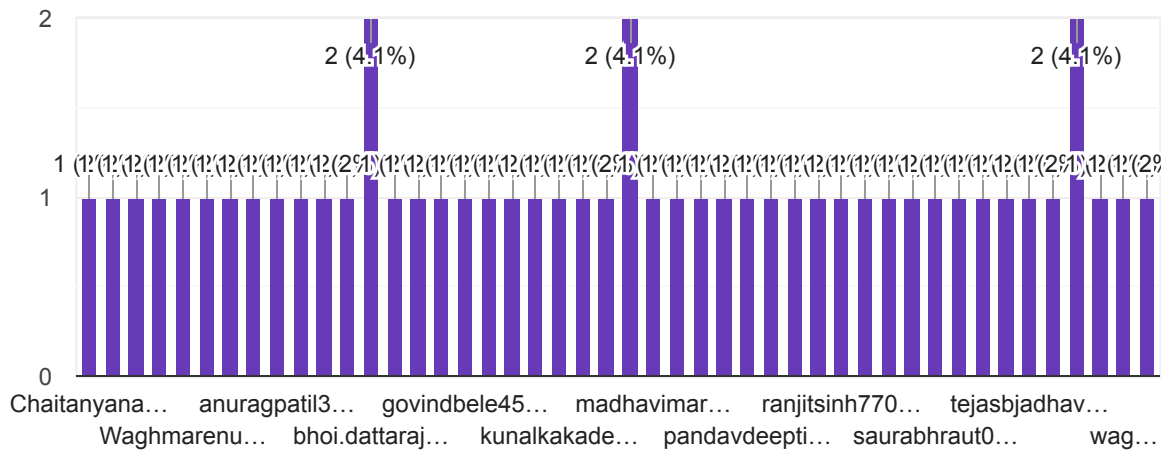

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Email ID

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49 responses

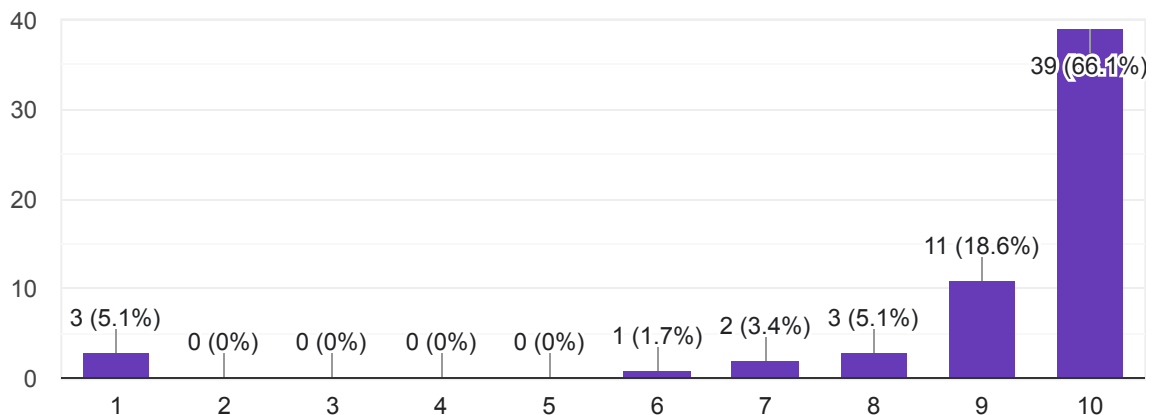



A.COURSE OUTCOMES

CO1- Classify distribution system and its types, Understand the design considerations of distribution feeders and Design economic choice of conductor using Kelvin's Law

 Copy

59 responses



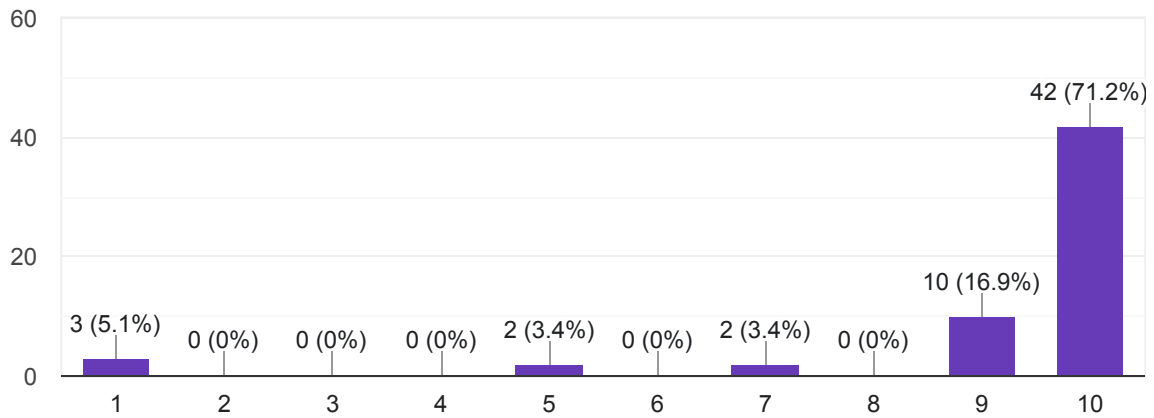

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CO2- Compare and classify various earthing systems and substation busbar arrangements and illustrate using Autocad software

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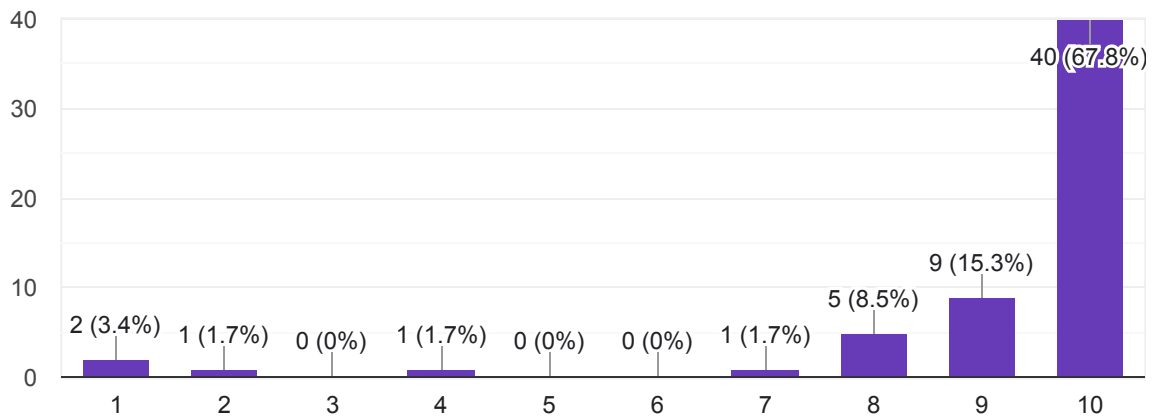
59 responses




CO3- Explain and analyse maintenance and condition monitoring of various electrical equipments.

 Copy

59 responses



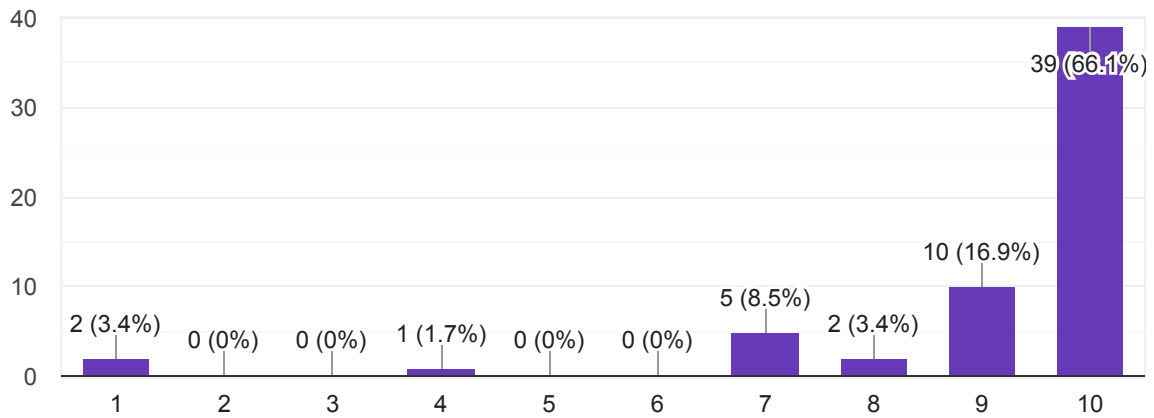

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CO4- Understand and analyze the different parameters to Estimate the cost of electrical wiring system for a given load

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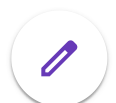
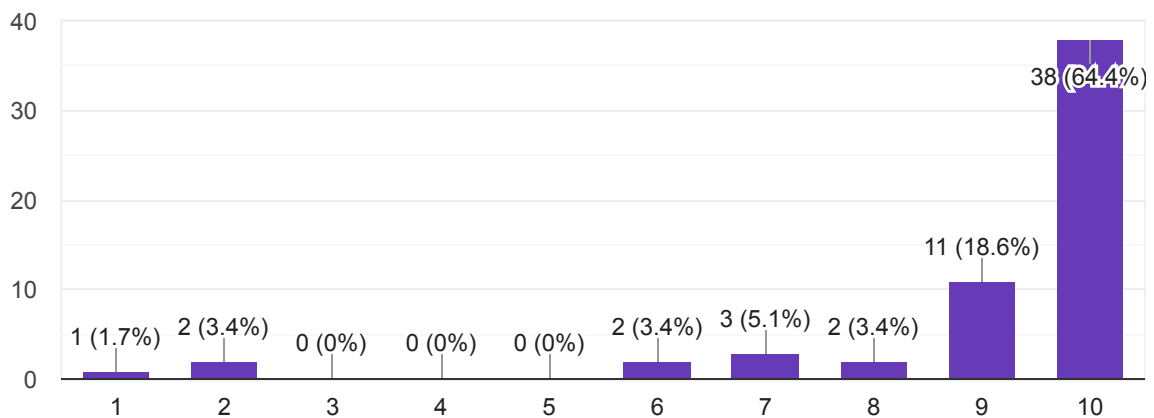
59 responses



CO5- Estimation and Costing of distribution systems

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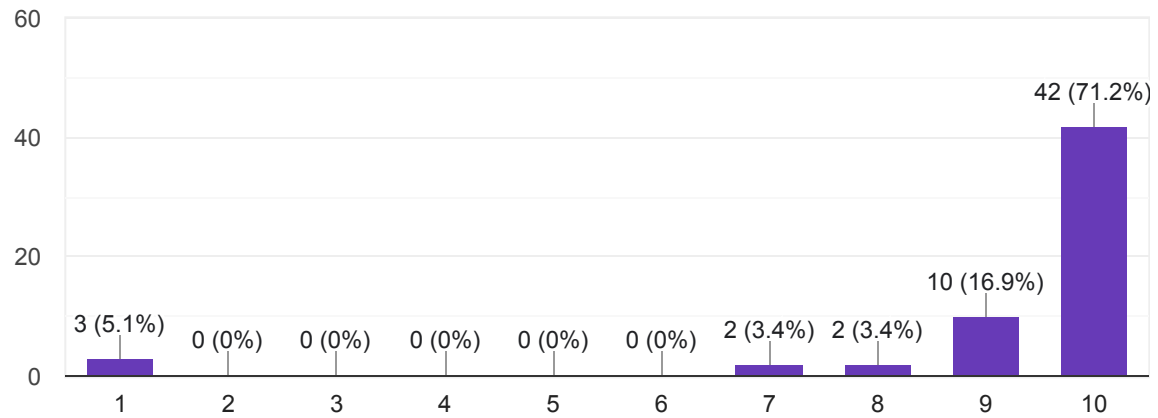
59 responses



CO6- Apply Electrical safety procedures and understand the different testing methods.

 Copy

59 responses



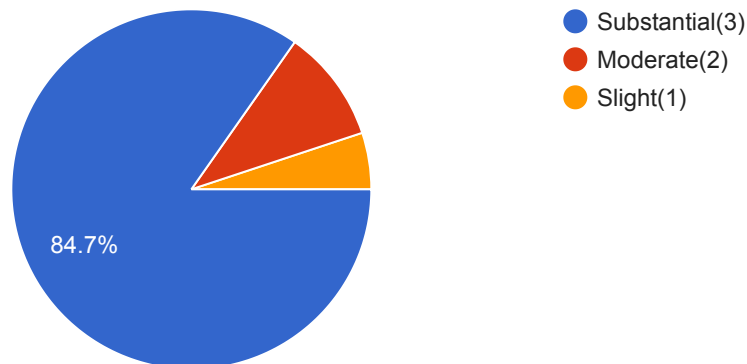
B. COURSE DELIVERY AND STUDENT PARTICIPATION

B. COURSE DELIVERY AND STUDENT PARTICIPATION

The course and subject matter were well organized and communicated effectively

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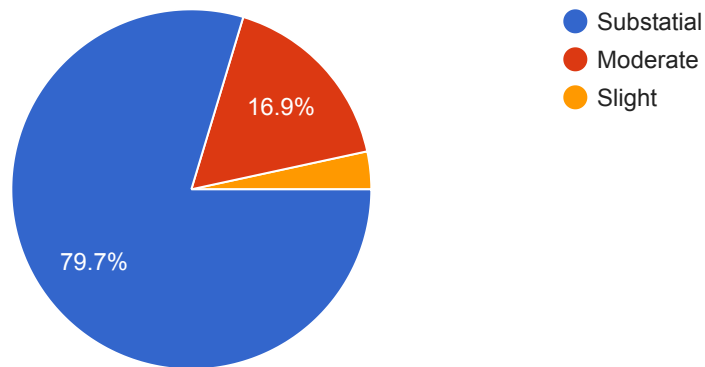
59 responses



Tests, Assignments/Practical/Activities were useful and grading was fair

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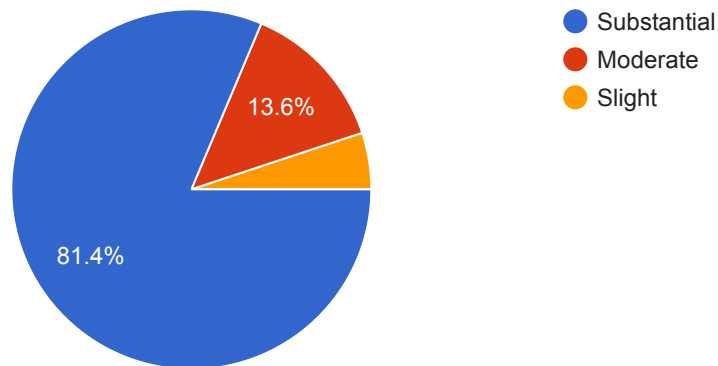
59 responses



instructional approach(es) used was (were) appropriate to the course

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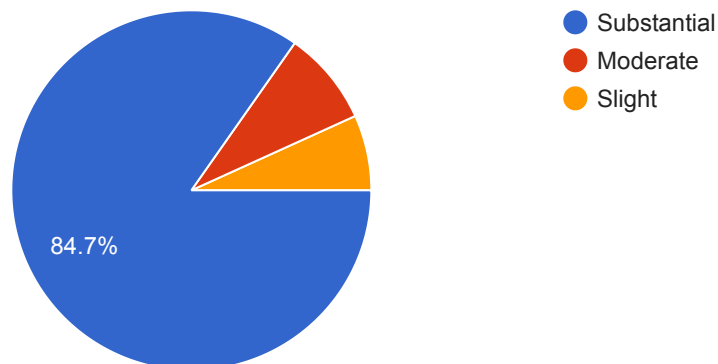
59 responses



Teacher was helpful in assisting problems and difficulty faced in class room and Laboratory

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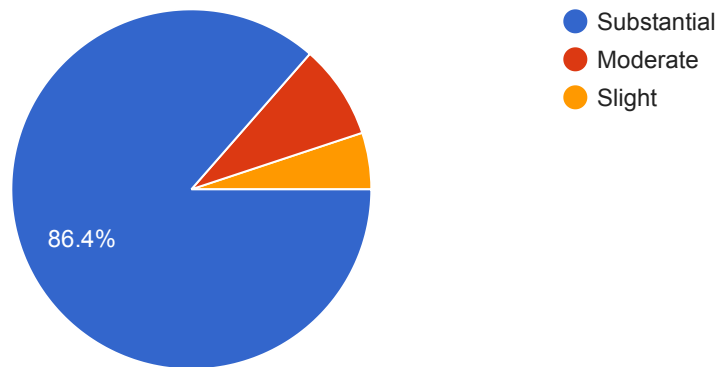
59 responses



Teacher motivated you to do your best work

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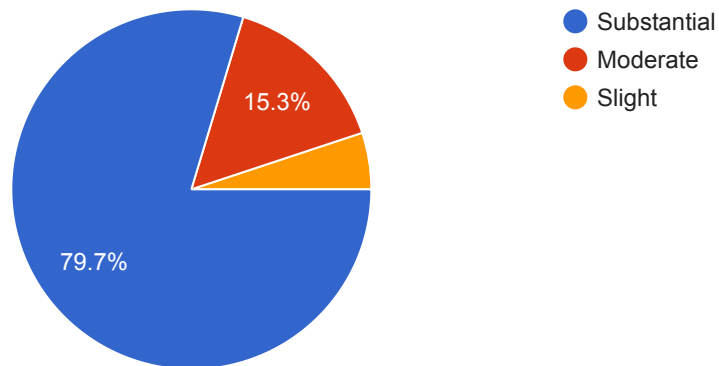
59 responses




Lab facilities were adequate for required activities

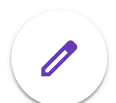
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59 responses



C:Remarks/Suggestion(Written response)


Head
Electric/Engg Dept
Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune



1. What was the most effective part of this course?

59 responses

-

.

All

Estimation and costing

Autocad

Learning

Practicals

Teaching

To know more abt generation and distribution system. Types of distribution systems

Learnt lot about Substation and industrial visit was so effective

Substation visit

Substation Visit

Substation visit

Theory part which gives information about practical knowledge.

All about practical knowledge

This course is very helpful to estimating and costing of wiring system. This course is also help to become aware from electrical safety.

So I think this is most effective part of this course.

Interaction with mam

Transmission

Visits, maintenance, wiring


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Electrical Engg Dept

Department of Electrical Engineering
AISSMS College of Engineering, Pune



Informative, Practicals , Visits etc

The visit to substation helped us to practical experience of transformer and it's maintenance, thermography camera,etc

Interaction

Visit

Got to know and learn AUTOCAD different maintenance schemes etc

Estimation of residential wiring (it's costing), different types of earthing & substations..

Practical knowledge

Practical performance

All parts of teaching was good

All parts of teaching was good with actual virtual understating

Lonikand visit

.

It gives us deep knowledge of every part of the wiring system

We use thermography camera practically

This course helps us to find the faults in machines and troubleshoot them.

Different equipment introduction and uses in field

Syllabus design and effective execution of topics

Maintenance of equipments

Earthing

Got to learn about wiring and distribution systems, substation

Visit



Visits and practical sessions

Teaching and learning coordination

Estimating and costing

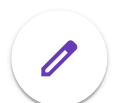
Estimation costing

Estimation and costing of substation

Very easy and understandable subject


Head
Electrical Engg Dept
Head

Department of Electrical Engineering
AISSMS College of Engineering, Pune



2. What are your suggestions, if any, for changes that would improve this course?

59 responses

No

.

NA

-

No suggestions

No suggestion

None

No

More practical work

Nothing

Video visualization will improve in understanding of the subject.

No change

no

No changes

It was very efficient course.. I don't think it should have any changes..

More practical sessions

No any suggestions

none

Exposure to field

No suggestions


Head
Electrical Engg Dept

Department of Electrical Engineering
AISSMS College of Engineering, Pune



No need

Whatever is going is much better

nothing

3. Do you suggest any addition or deletion in the syllabus that would have made learning more effective?

41 responses

No

no

.

-

No

Mote on costing


No require

None of the deletion. Because all syllabus is too important for us

None

Na

All


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Electricity Engg Dept
Head
Department of Electrical Engineering
AISSMS College of Engineering, Pune



4. Have you observed lack of facilitates which affected course learning? If Yes, mention below

39 responses

No

Yes

no

-

Na

Please increase RAM of computers.


.

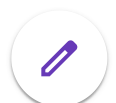
More visits should be there to increase practical knowledge

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Electric Engg Dept

Department of Electrical Engineering
AISSMS College of Engineering, Pune



Course End Survey TE E&TC : Digital Communication

All Students are inform to give the course end Survey by filling all the details

1. Student Information(Optional)
2. On Learning outcome Section
3. Course Delivery and Students Participation
4. Remarks/Suggestions (Written response)

Student Information(Optional)

1. Roll No:

2. Name of The Student:

Skip to question 3

On Learning outcome section

3. **CO1:** Explain various signals in a communication system using statistical theory.

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

4. **CO2:** Categorize various digital modulation techniques used in digital communication system in presence of AWGN noise.

Mark only one oval.

- ☐ 0
☐ 1
☐ 2
☐ 3

5. **CO3:** Compare various higher order digital modulation techniques used in digital communication system.

Mark only one oval.

- ☐ 0
☐ 1
☐ 2
☐ 3

6. **CO4:** Describe the digital communication system with spread spectrum modulation.

Mark only one oval.

- ☐ 0
☐ 1
☐ 2
☐ 3

7. **CO5:** Estimate a communication system using information theoretic approach.

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

8. **CO6:** Illustrate error control coding techniques to improve performance of a digital communication system.

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

Course delivery and student participation:

1-Slight; 2-Moderate;3-Substantial

9. The course and subject matter were well organized and communicated effectively

Mark only one oval.

☐ 1

☐ 2

☐ 3

10. Tests, assignments/practical/Projects were useful and grading was fair

Mark only one oval.

☐ 1

☐ 2

☐ 3

11. instructional approach(es) used was (were) appropriate to the course

Mark only one oval.

☐ 1

☐ 2

☐ 3

12. You gave your best efforts in completing Lab work and assignments

Mark only one oval.

☐ 1

☐ 2

☐ 3

13. Teacher / Lab asst was (were) helpful in assisting with problems and difficulties in the lab

Mark only one oval.

☐ 1

☐ 2

☐ 3

14. Teacher motivated you to do your best work

Mark only one oval.

☐ 1

☐ 2

☐ 3

15. Space & facilities were adequate for required activities

Mark only one oval.

☐ 1

☐ 2

☐ 3

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Course End Survey TE E&TC : Digital Communication

41 responses

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Student Information(Optional)

Shinde
Head
Department of Electronics & Telecommu
AISSMS's COE PUNE-411001



Roll No:

40 responses

21ET039

21ET038

21ET007

21ET023

21ET061

02

17

21ET004

21ET015

21ET060

21ET026

21ET043

21ET042

21ET001

22ET302

21ET009

21ET022

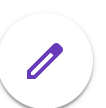
21ET025

21ET066

21ET018

22ET307

21ET003



21ET029

22ET305

21ET030

21ET016

21ET005

21ET053

21ET011

21ET064

22et306

21ET048

21ET036

21ET046

21ET006

21ET063

21ET045

21ET008

21ET047

21ET049



Name of The Student:

39 responses

Mandar Kulkarni

Janvi Mahapadi

Snehal Borhade

Apoorva Sandeep Jadhav

Shreya Prashant Sirsale

Anand Maratha

Sunayana Gaikwad

Samrudhi Bandi

Arya Dombé

Pranoti Shiva

Gaurav Makarand Kale

Fardin Kazi

Saee purushottam murkute

Dewanshi Agarkar

Rutuja Pramod Chikane

Samruddhi Chandgude

Aditi Ingole

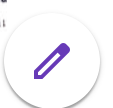
Om Kalantri

Ashutosh Waghavkar

Dnyaneshwar Tavjiba Ghodke

Kajal santosh kumbhar

Atharva S. Ardhapurkar



Anisha kandhare

Pandurang Bapu Jawle

Prajwal Karande

Abhijeet gaikwad

Sharmad Bhandari

Ojas Dhadge

Devendra Dnyaneshwar Varule

Vaishnavi kadu

Sakshi Vikas pawar

Vasudha Kulkarni

Aniket Govindrao Patil

Sejal Shitalkumar Bobade

Omkar Vartak

Jay Patel

Likhita Bujade

Vaishnavi Patil

Sheetal Shankar Pawar

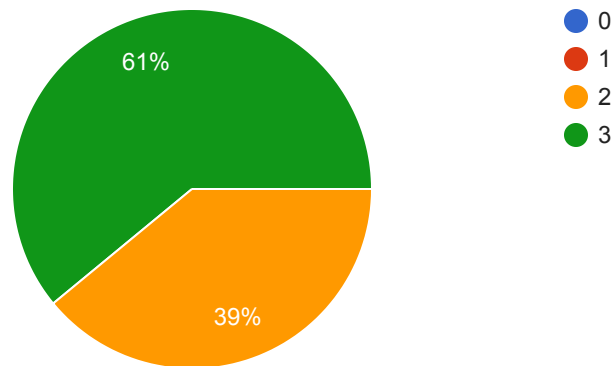
On Learning outcome section



C01: Explain various signals in a communication system using statistical theory.

 Copy

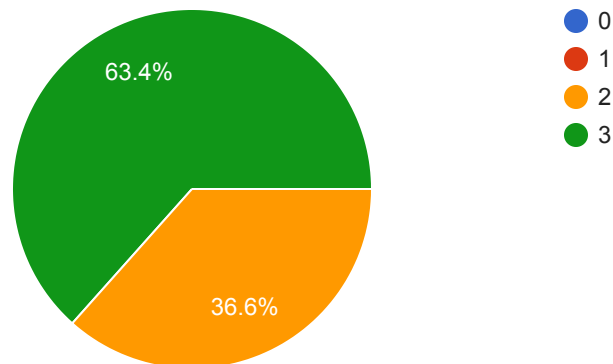
41 responses



C02: Categorize various digital modulation techniques used in digital communication system in presence of AWGN noise.

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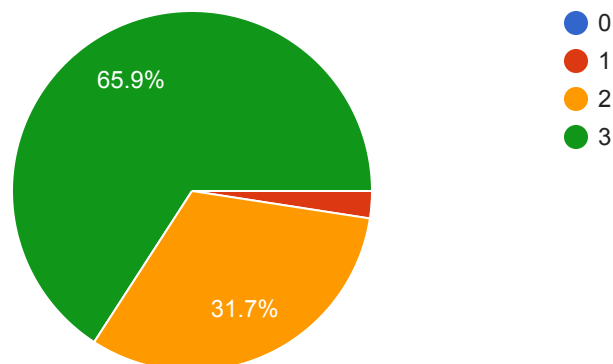
41 responses



C03: Compare various higher order digital modulation techniques used in digital communication system.

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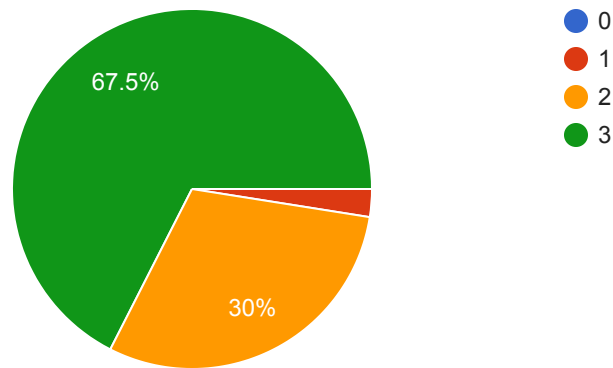
41 responses



C04: Describe the digital communication system with spread spectrum modulation.

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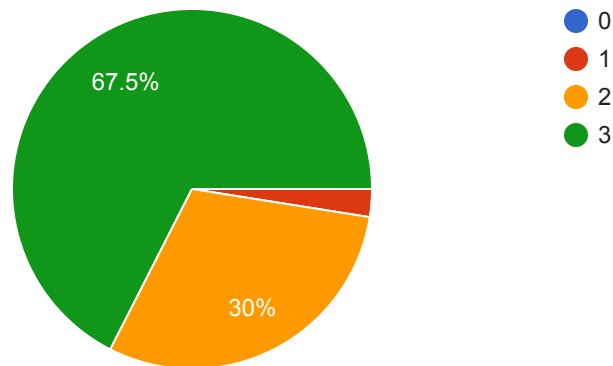
40 responses



C05: Estimate a communication system using information theoretic approach.

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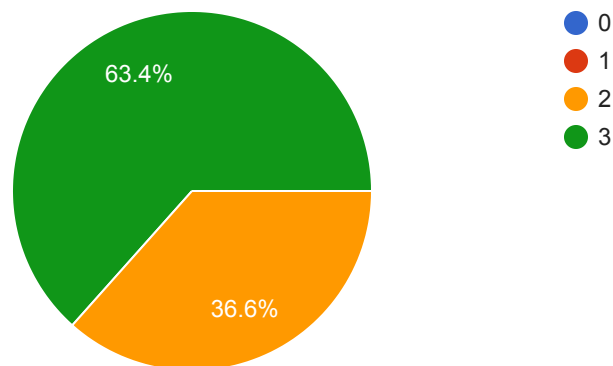
40 responses



C06: Illustrate error control coding techniques to improve performance of a digital communication system.

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41 responses

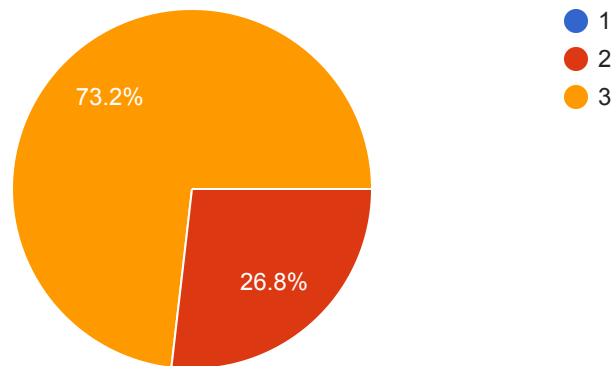


Course delivery and student participation:

The course and subject matter were well organized and communicated effectively

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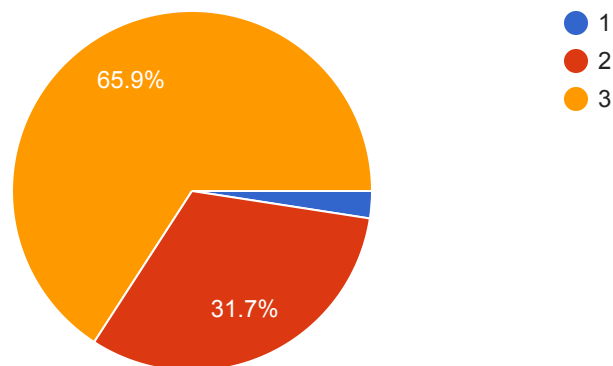
41 responses



Tests, assignments/practical/Projects were useful and grading was fair

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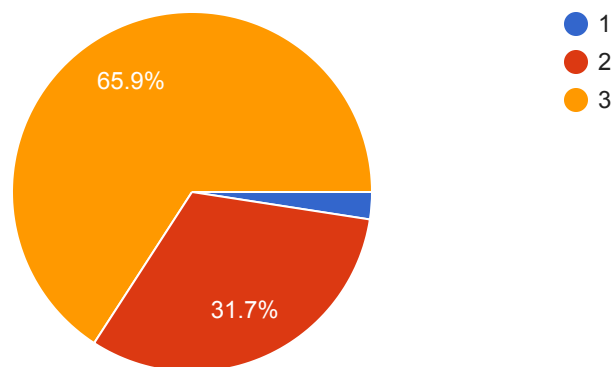
41 responses



instructional approach(es) used was (were) appropriate to the course

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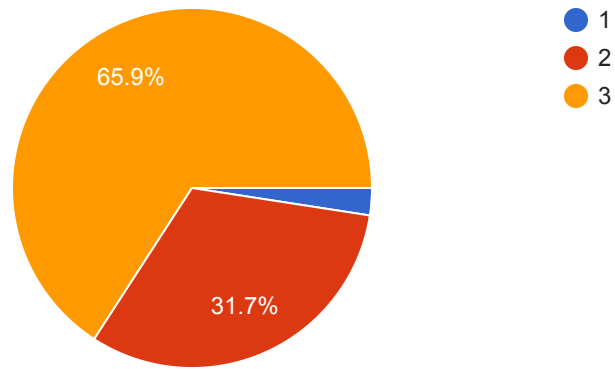
41 responses



You gave your best efforts in completing Lab work and assignments

 Copy

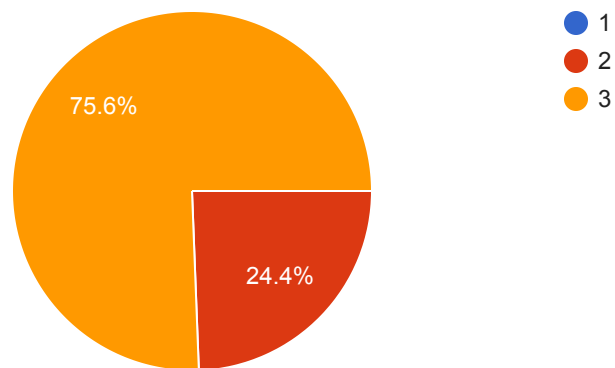
41 responses



Teacher / Lab asst was (were) helpful in assisting with problems and difficulties in the lab

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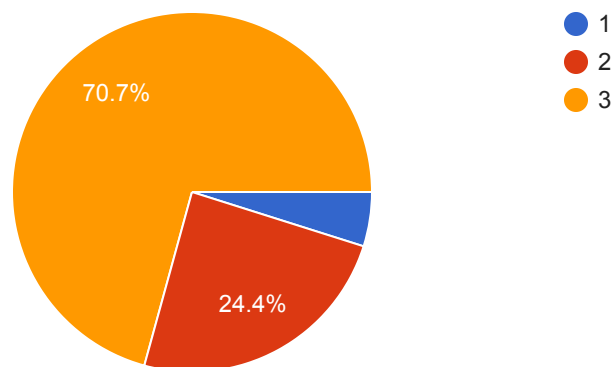
41 responses



Teacher motivated you to do your best work

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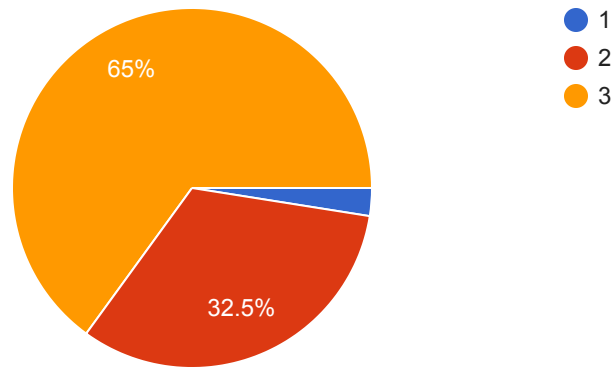
41 responses



Space & facilities were adequate for required activities

 Copy

40 responses



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Course End Survey BE E&TC : Radiation & Microwave Techniques

All Students are inform to give the course end Survey by filling all the details

1. Student Information(Optional)
2. On Learning outcome Section
3. Course Delivery and Students Participation
4. Remarks/Suggestions (Written response)

Student Information(Optional)

1. Roll No:

2. Name of The Student:

Skip to question 3

On Learning outcome section

3. **CO1:** Apply the fundamentals of electromagnetic to learn performance parameters of antenna.

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

4. **CO2:** Compare: coaxial line, rectangular waveguides & striplines

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

5. **CO3:** Explain construction and working of principles passive microwave devices/components.

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

6. **CO4:** Compare construction and working of principles active microwave devices/components.

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

7. **CO5:** Analyze the structure, characteristics, operation and applications of various microwave solid state active devices.

Mark only one oval.

- ☐ 0
☐ 1
☐ 2
☐ 3

8. **CO6:** Describe various Microwave systems and measurement techniques.

Mark only one oval.

- ☐ 0
☐ 1
☐ 2
☐ 3

Course delivery and student participation:

1-Slight; 2-Moderate;3-Substantial

9. The course and subject matter were well organized and communicated effectively

Mark only one oval.

- ☐ 1
☐ 2
☐ 3

10. Tests, assignments/practical/Projects were useful and grading was fair

Mark only one oval.

☐ 1

☐ 2

☐ 3

11. instructional approach(es) used was (were) appropriate to the course

Mark only one oval.

☐ 1

☐ 2

☐ 3

12. You gave your best efforts in completing Lab work and assignments

Mark only one oval.

☐ 1

☐ 2

☐ 3

13. Teacher / Lab asst was (were) helpful in assisting with problems and difficulties in the lab

Mark only one oval.

☐ 1

☐ 2

☐ 3

14. Teacher motivated you to do your best work

Mark only one oval.

☐ 1

☐ 2

☐ 3

15. Space & facilities were adequate for required activities

Mark only one oval.

☐ 1

☐ 2

☐ 3

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Roll No:

77 responses

20ET013

20ET022

20ET036

20ET033

19ET008

20ET027

20ET005

20ET008

20ET038

20ET001

21ET303

20ET058

20ET064

20ET067

20ET015

20ET048

20ET051

20ET040

20ET050

20ET004

20ET012

20ET059



20ET002

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21ET304

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20ET062

20ET023

20ET043

20ET047

20ET054

20ET009

20ET003

20ET055

20ET201

20Et024

20ET018

20ET017

20ET057

21ET302

20ET065

21ET305

20et006

21ET308

20ET032


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20ET021

20ET052

21ET301

20ET031

21ET401

20ET069

20et061

20ET063

20ET035

sdborawake5@gmail.com

20ET029

20ET068

20ET025

20ET028



Name of The Student:

77 responses

Aditya Gujar

GAURAV S. LONDHE

Ruthvik Kamble

Shraddha Hiranman Jadhav

Pranav Desai

Soham Borawake

Anish Jadhav

Aishwarya Shinde

Sudhansh Dongare

Atharav Vyawahare

Rajwee Wable

Desai Pranav

Priti Ankush Sagar

MORE DEEPAJ BALASAHEB

Pradnya Bhoskar

Priyanka Shahaji Redekar

Virakshi Birajdar

Vaishnavi Dalave

Sakshi Surendra Shinde

Atharva Shelke

Shubham Ganesh Bodhe

Sahil parkhe



Priti Kadam

Yashraj Yuvaraj Shelar

Mohd Aqib

Shristi Singh

Maithili Gujar

Ketaki Nanaware

Aditya Satyawar Pawar

Prathamesh Yogesh Shahapure

Praveen choudhary

Ajay Atkire

Zeeshan Shaikh

Suraj Mete

Atharv Hapse

Rishi Gandhi

Vedant Dhopate

NUPUR CHANDANE

Krushna Mare

Atif Shikalgar

Vedant Bandarkar

ANGRE DEVANG KISHOR

Omkar Vitthal Tanpure

ANIKET DADDI

Omkar Mahajan

Sherkhane Pramila Gangaram



Krishna Mare

Vishwaja Manish Kadu

NUPUR CHANDANE

ANIRUDDHA GOSWAMI

Shashiraj Sahani

Anvekar Atul Rameshwar

Atharva Kadam

ABHAY SANJAY PAWAR

Shubham Bodhe

Shivam Zinjurde

Siddhesh badgujar

jotsna sonar

Kazi Saifoddin Rajiyoddin

niranjan nivrutti devale

Niranjan Nivrutti Devale

Janhvi Shendre

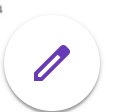
Pradnya Bhoskar

Abhishek Walke

Hirave Akshay Dattatray

Anjali Manik Jagtap

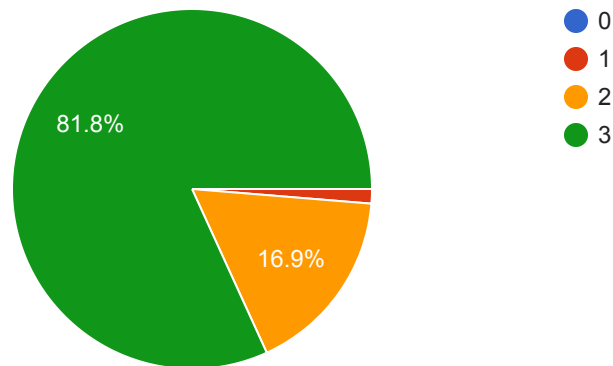
On Learning outcome section



C01: Apply the fundamentals of electromagnetic to learn performance parameters of antenna.

 Copy

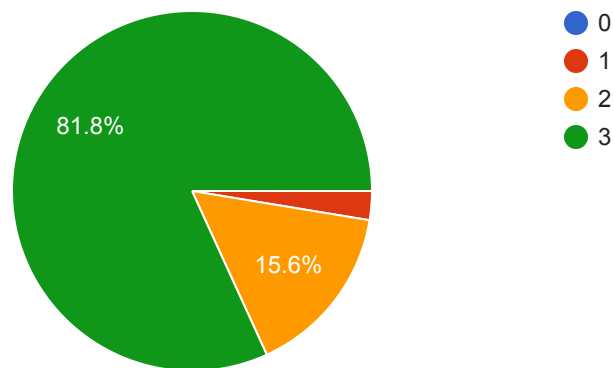
77 responses



C02: Compare: coaxial line, rectangular waveguides & striplines

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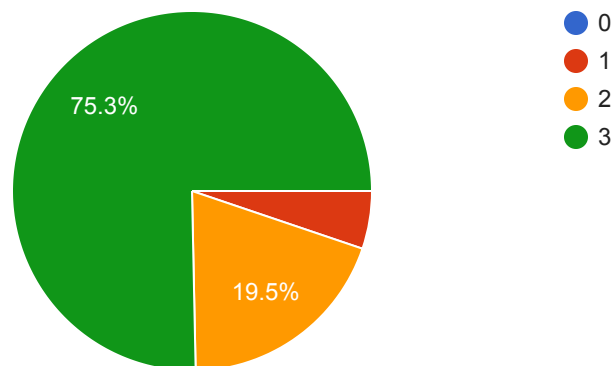
77 responses



C03: Explain construction and working of principles passive microwave devices/components.

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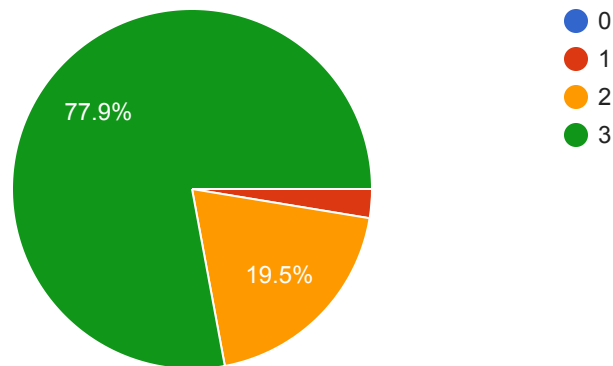
77 responses



C04: Compare construction and working of principles active microwave devices/components.

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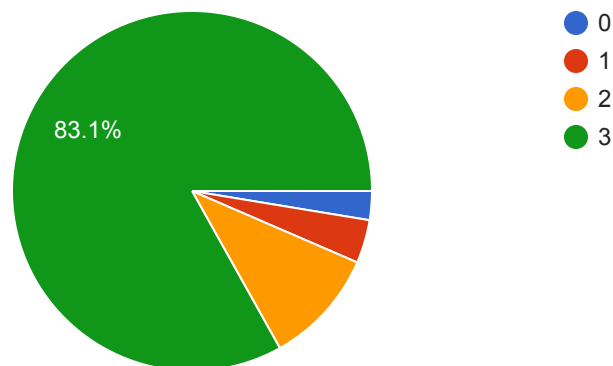
77 responses



C05: Analyze the structure, characteristics, operation and applications of various microwave solid state active devices.

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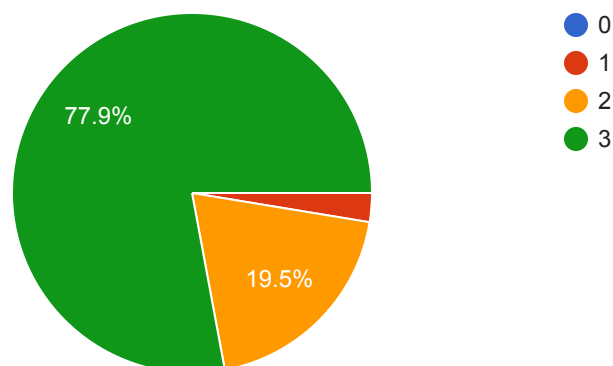
77 responses



C06: Describe various Microwave systems and measurement techniques.

 Copy

77 responses

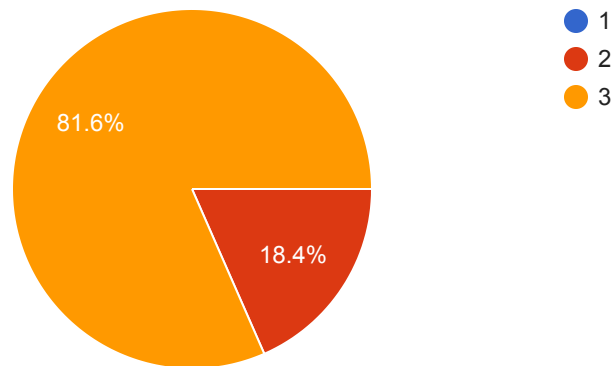


Course delivery and student participation:

The course and subject matter were well organized and communicated effectively

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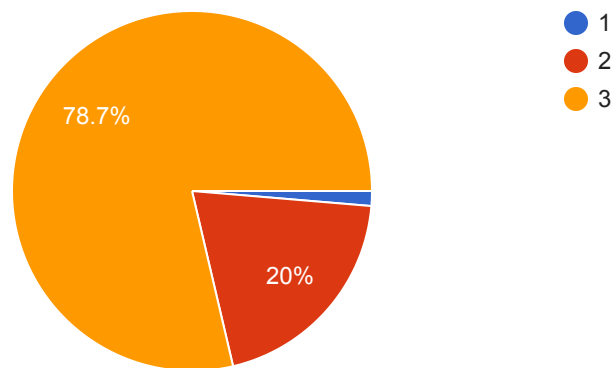
76 responses



Tests, assignments/practical/Projects were useful and grading was fair

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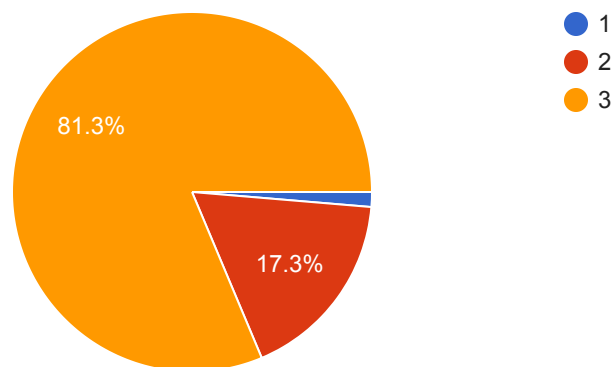
75 responses



instructional approach(es) used was (were) appropriate to the course

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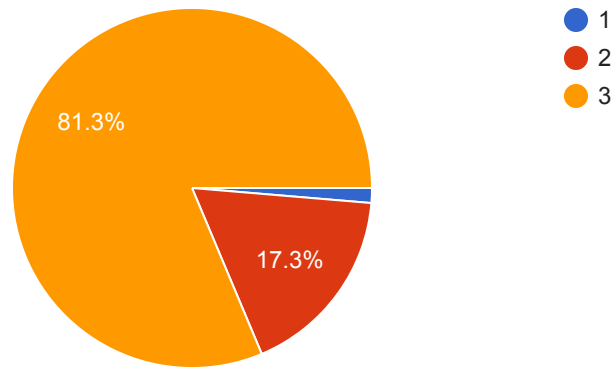
75 responses



You gave your best efforts in completing Lab work and assignments

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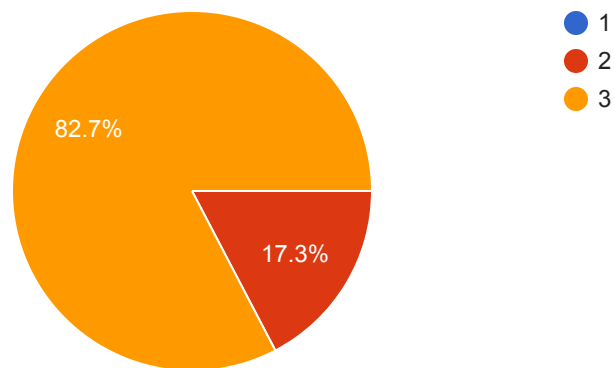
75 responses



Teacher / Lab asst was (were) helpful in assisting with problems and difficulties in the lab

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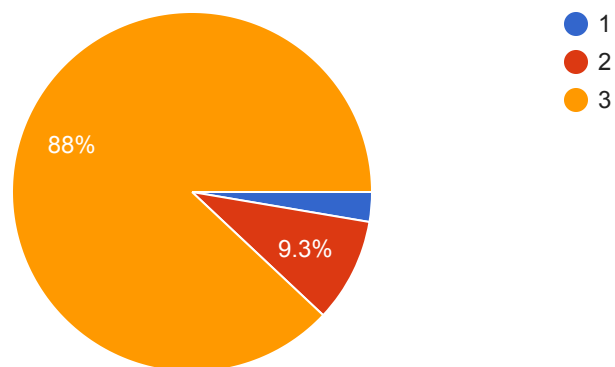
75 responses



Teacher motivated you to do your best work

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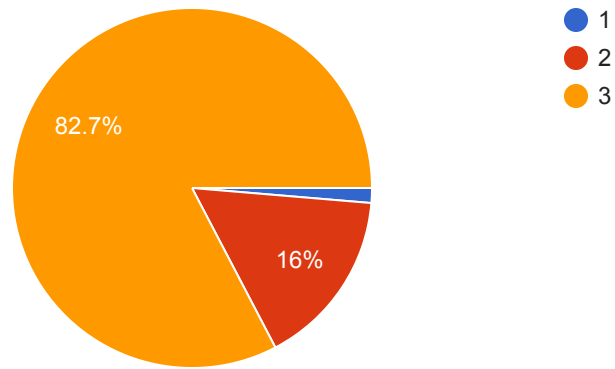
75 responses



Space & facilities were adequate for required activities



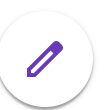
75 responses



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Department of Mechanical Engineering - SE Mechanical (Div A) , SEM II 2022 23 COURSE END SURVEY

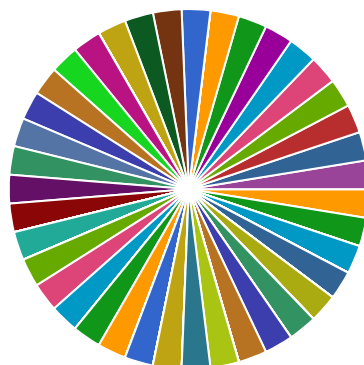
39 responses

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Your Roll No and Name

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39 responses



- 21ME001 ABHALE ABHISHE...
- 21ME003 ANIRUDDHA KAMAT
- 21ME004 ANTHONY ASHIS...
- 21ME005 ANURAG SACHIN...
- 21ME006 ATHARVA SANJAY...
- 21ME007 AVISHKAR SANTO...
- 21ME008 BHOLE ADITYA VI...
- 21ME009 BHOSALE ABHISH...

▲ 1/10 ▼

Kinematics and machinery

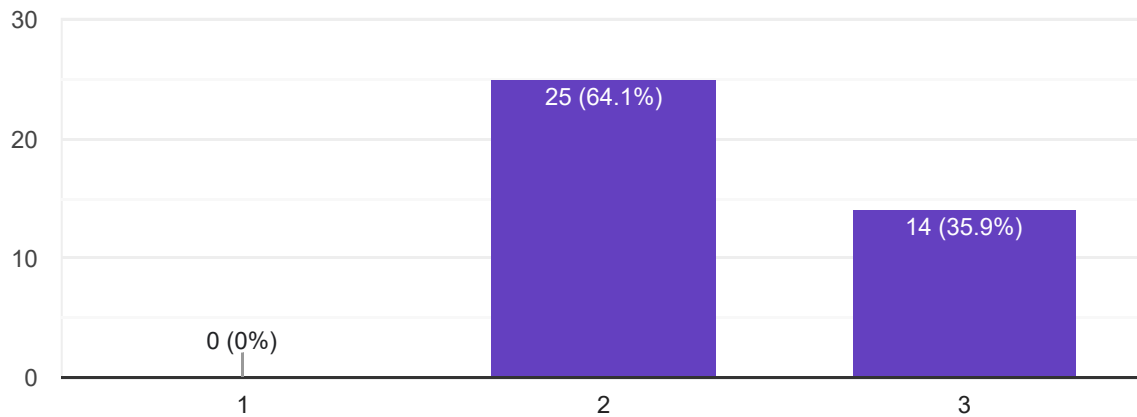
Scale - 1 to 3 ----> 1 - Low, 2 - Medium, 3 - High



Q1. Do you feel that you are able to **PERFORM** kinematic analysis of simple mechanisms.

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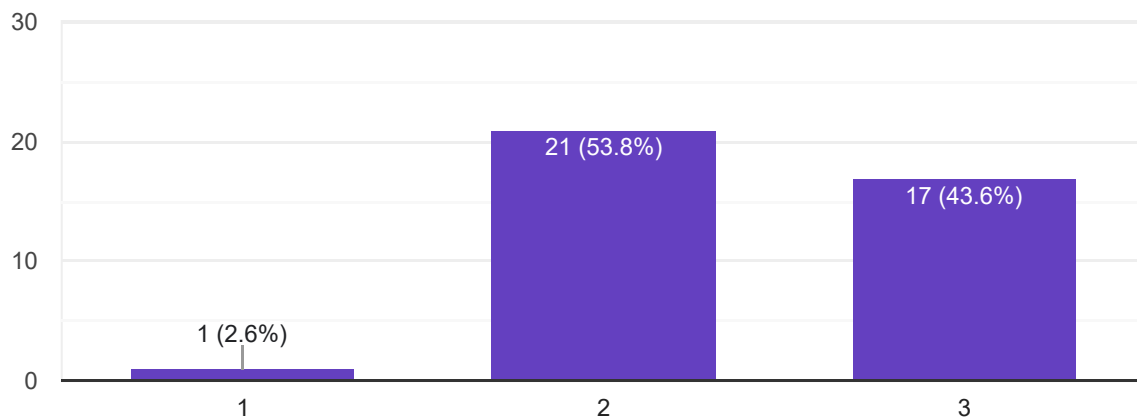
39 responses



Q2. Do you feel that you are able to **ANALYZE** velocity and acceleration of four-bar and single slider mechanisms by analytical methods.

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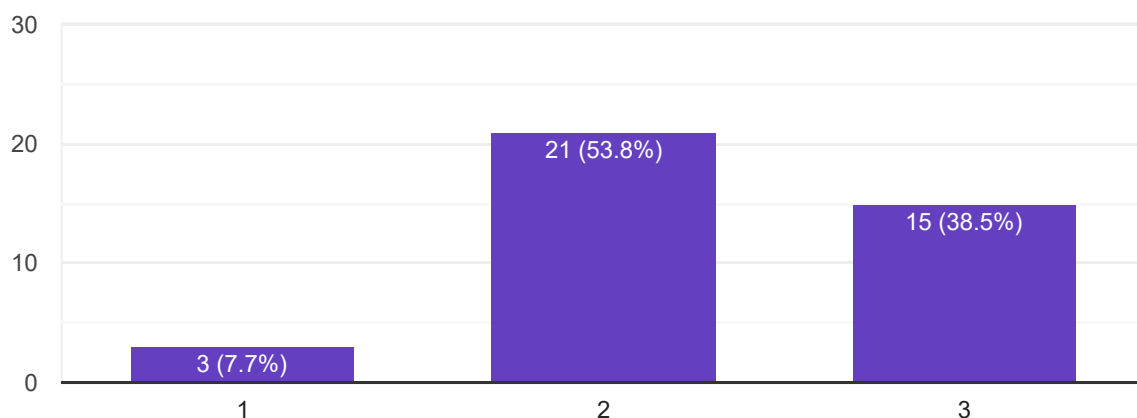
39 responses



Q3. Do you feel that you are able to **ANALYZE** velocity and acceleration of mechanisms by ICR and relative velocity methods.

 Copy

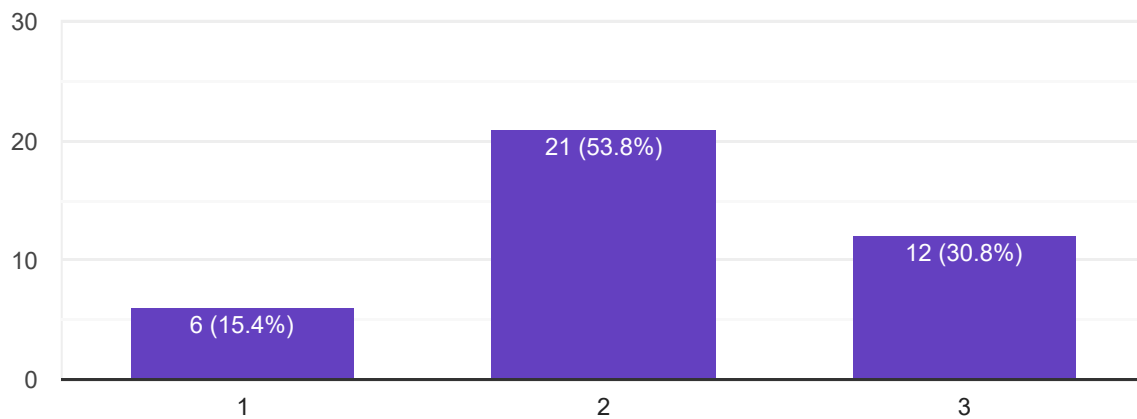
39 responses



Q4. Do you feel that you are able to SYNTHESIZE four-bar and single slider mechanisms with analytical and graphical methods

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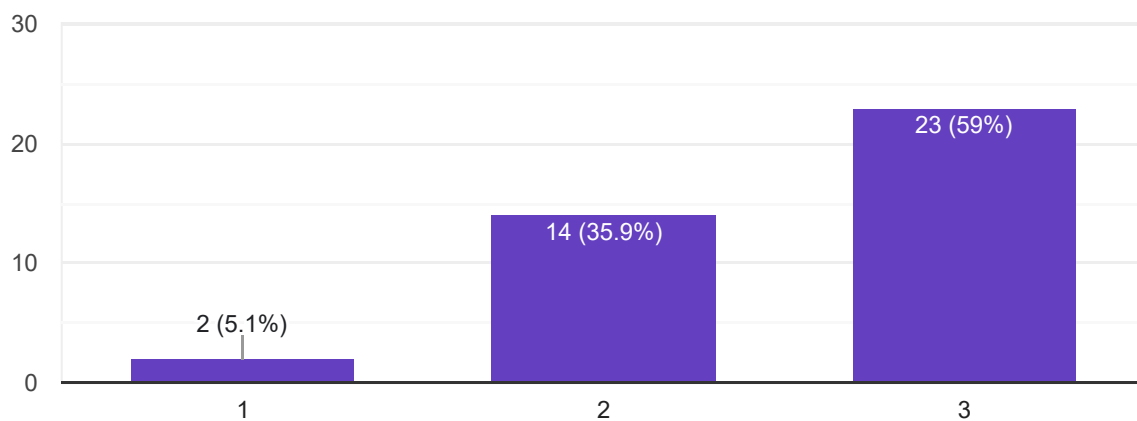
39 responses



Q5. Do you feel that you are able to APPLY fundamentals of gear theory as a prerequisite for gear design.

 Copy

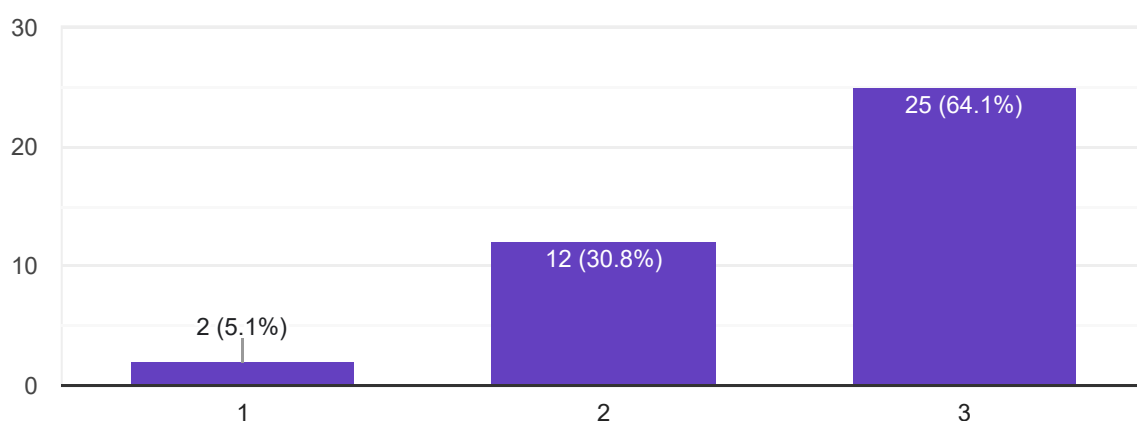
39 responses



Q6. Do you feel that you are able to CONSTRUCT cam profile for given follower motion.

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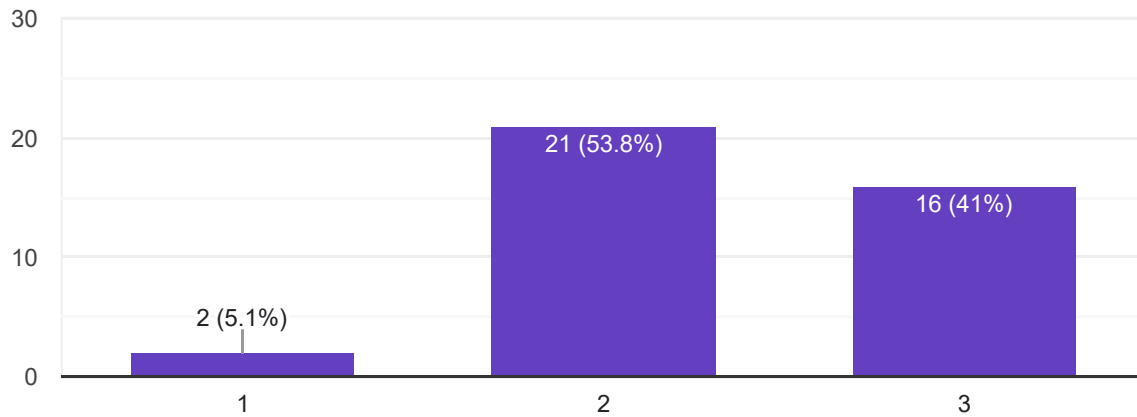
39 responses



Q1 Do you feel that you are able to DETERMINE COP of refrigeration system and ANALYZE psychrometric processes.

 Copy

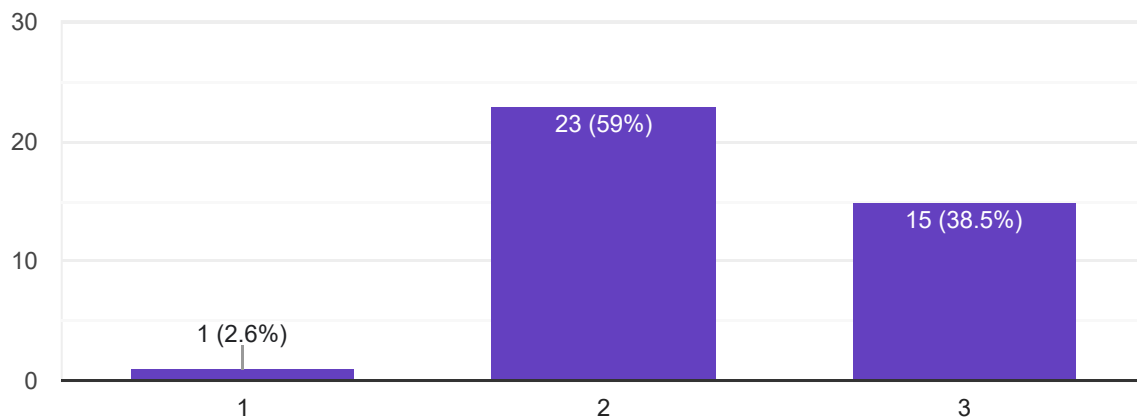
39 responses



Q2. Do you feel that you are able to DISCUSS basics of engine terminology, air standard, fuel air and actual cycles.

 Copy

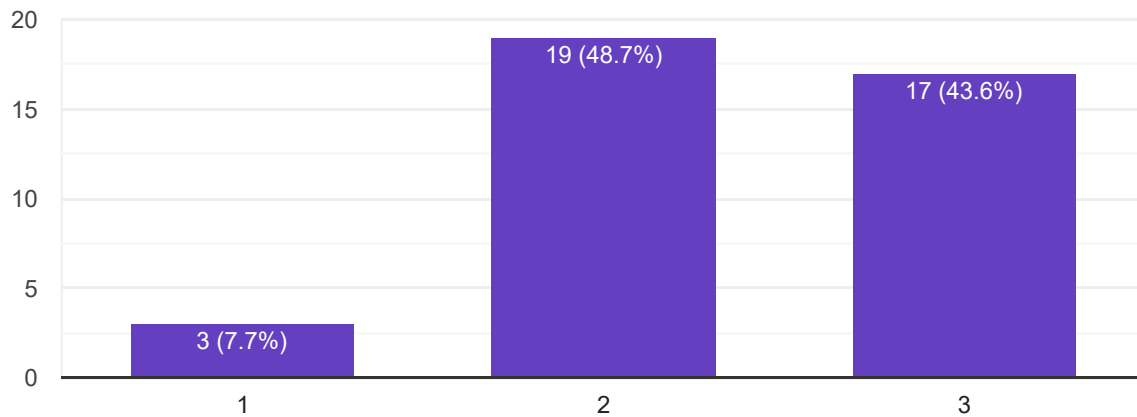
39 responses



Q3. Do you feel that you are able to IDENTIFY factors affecting the combustion performance of SI and CI engines

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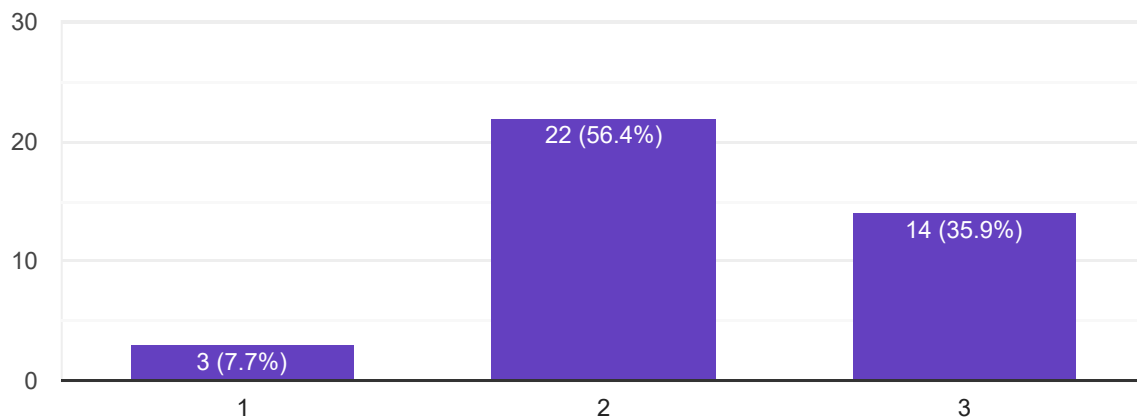
39 responses



Q4. Do you feel that you are able to DETERMINE performance parameters of IC Engines and emission control

 Copy

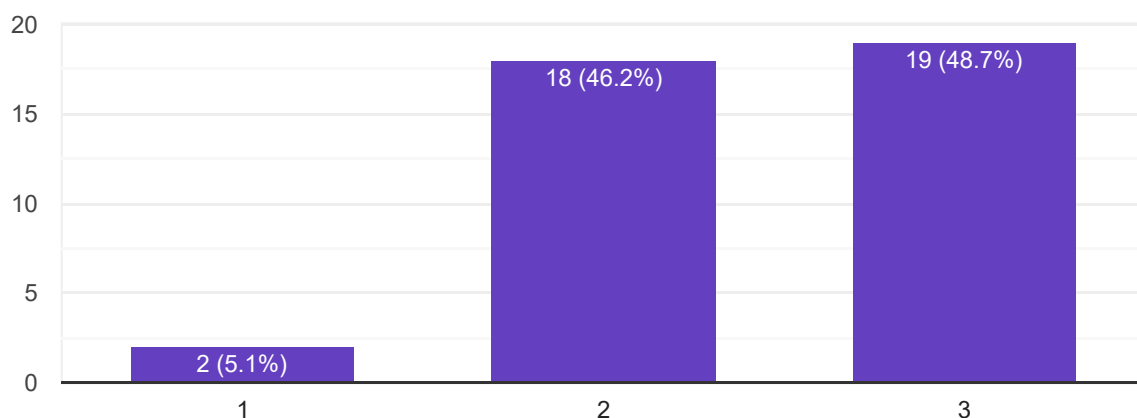
39 responses



Q5. Do you feel that you are able to EXPLAIN working of various IC Engine systems and use of alternative fuels.

 Copy

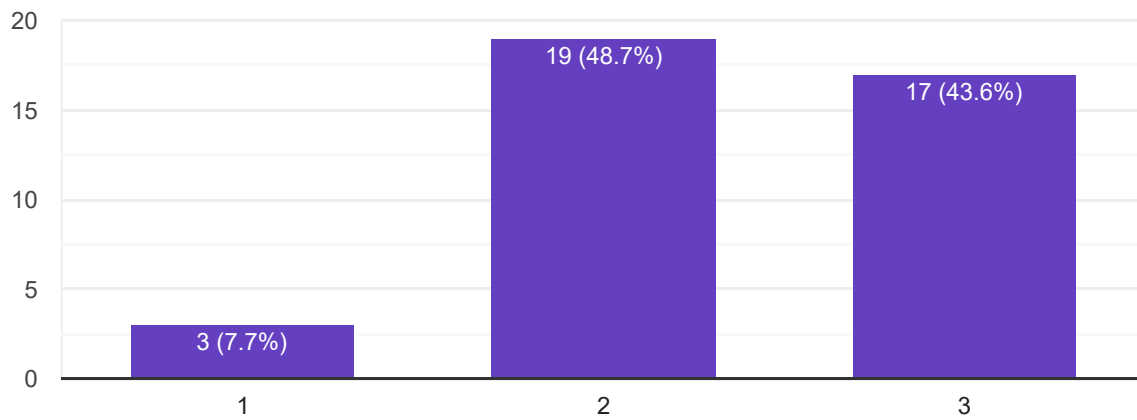
39 responses



Q6. Do you feel that you are able to CALCULATE performance of single and multi stage reciprocating compressors and DISCUSS rotary positive displacement compressors



39 responses

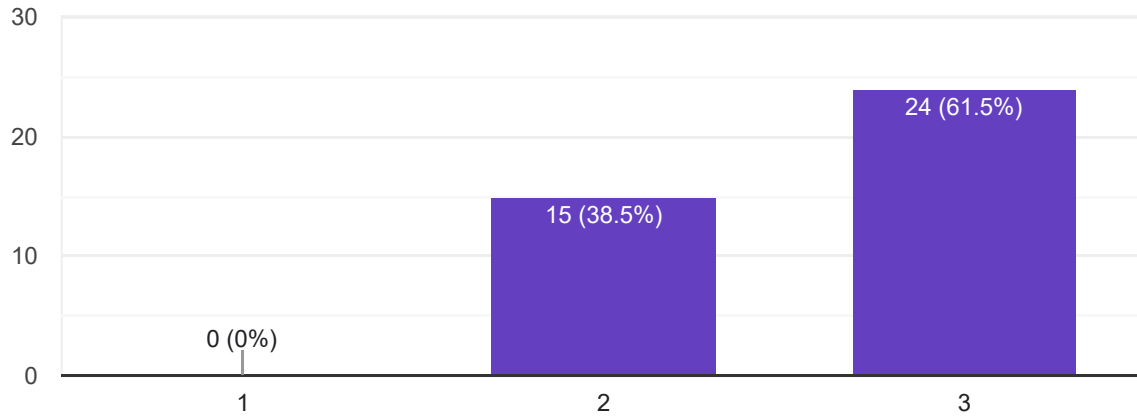


Fluid Mechanics

Q1. Do you feel that you are able to DETERMINE various properties of fluid



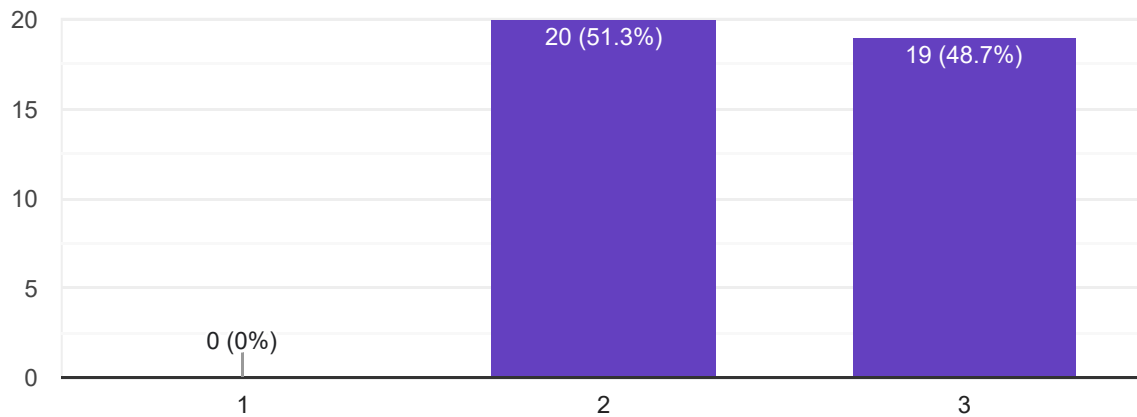
39 responses



Q2. Do you feel that you are able to APPLY the laws of fluid statics and concepts of buoyancy

 Copy

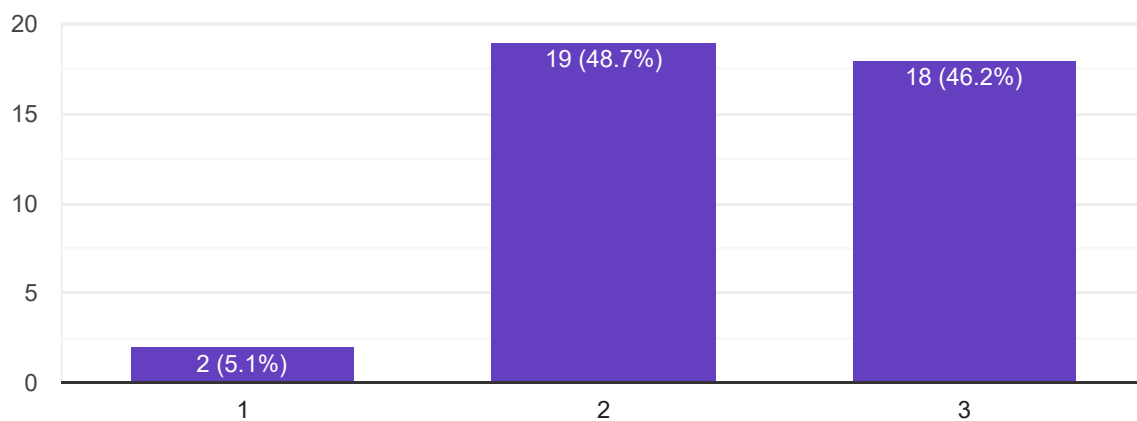
39 responses



Q3. Do you feel that you are able to IDENTIFY types of fluid flow and terms associated in fluid kinematics

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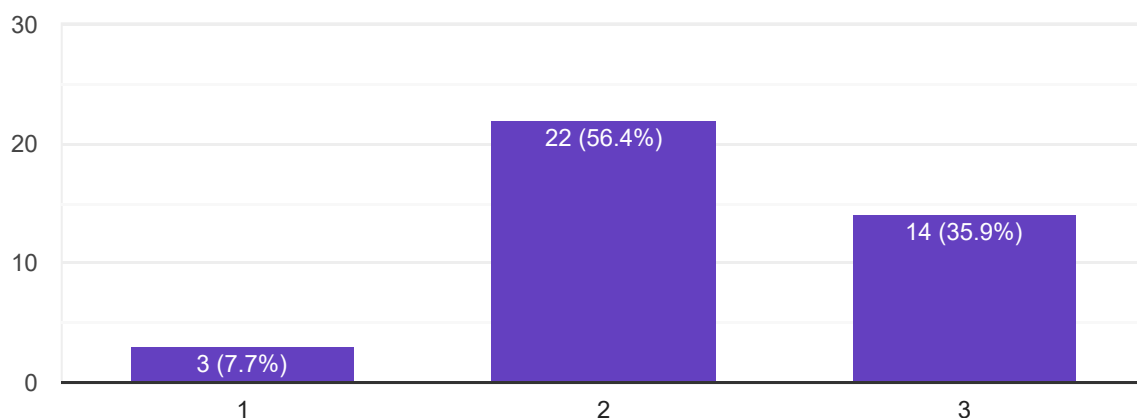
39 responses



Q4. Do you feel that you are able TO APPLY principles of fluid dynamics to laminar flow

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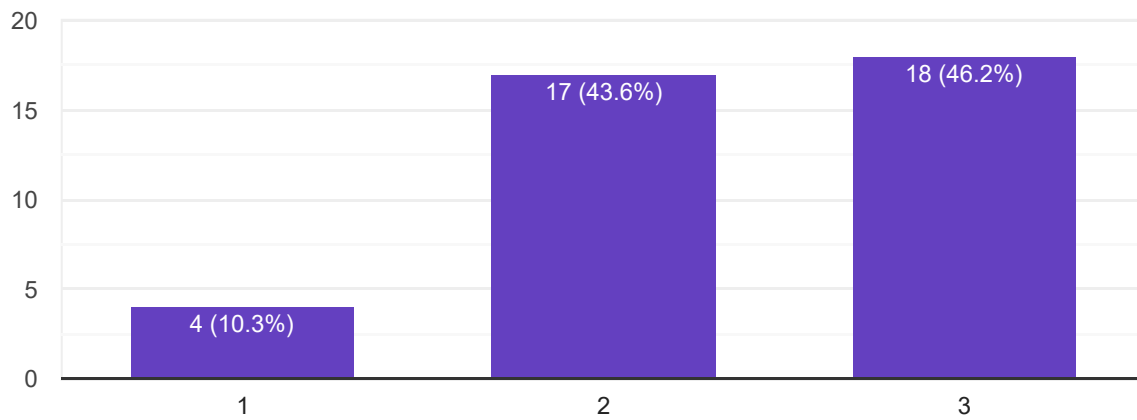
39 responses



Q5. Do you feel that you are able to ESTIMATE friction and minor losses in internal flows and DETERMINE boundary layer formation over an external surface

 Copy

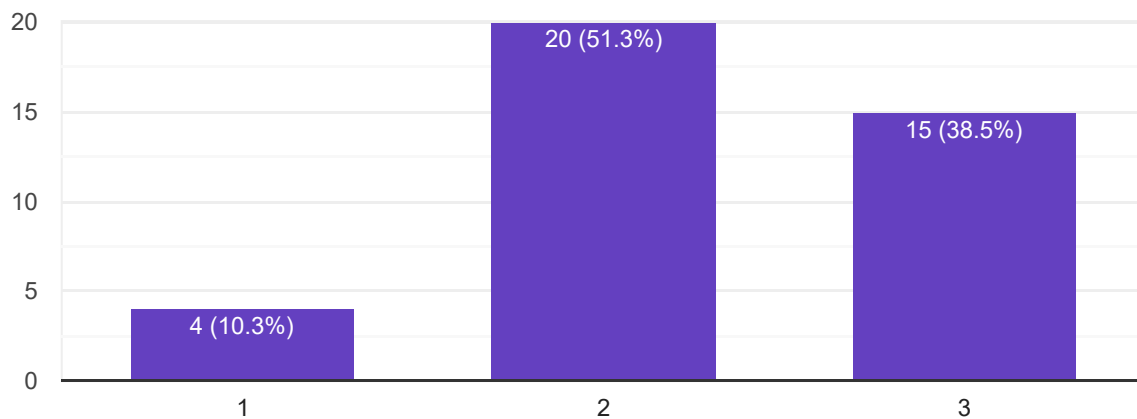
39 responses



Q6. Do you feel that you are able to CONSTRUCT mathematical correlation considering dimensionless parameters, also ABLE to predict the performance of prototype using model laws

 Copy

39 responses



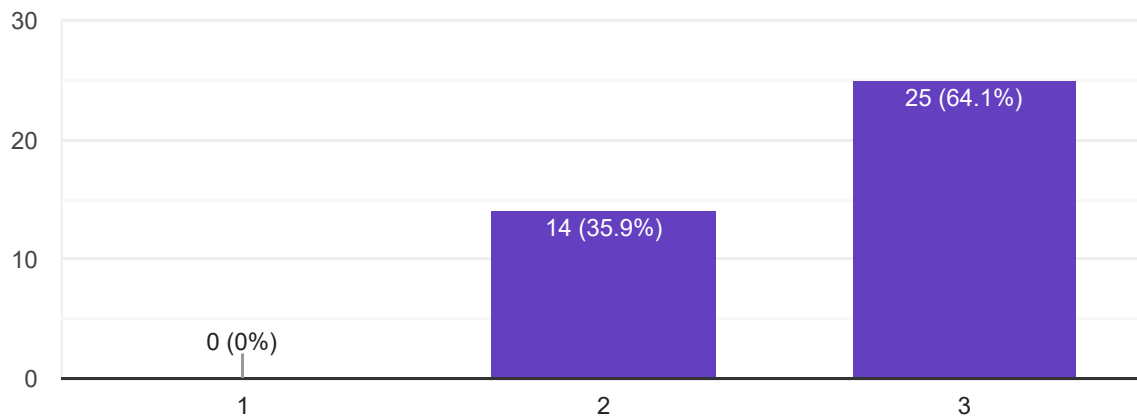
Manufacturing Processes



Q1. Do you feel that you are able to SELECT appropriate moulding, core making and melting practice and estimate pouring time, solidification rate and DESIGN riser size and location for sand casting process

 Copy

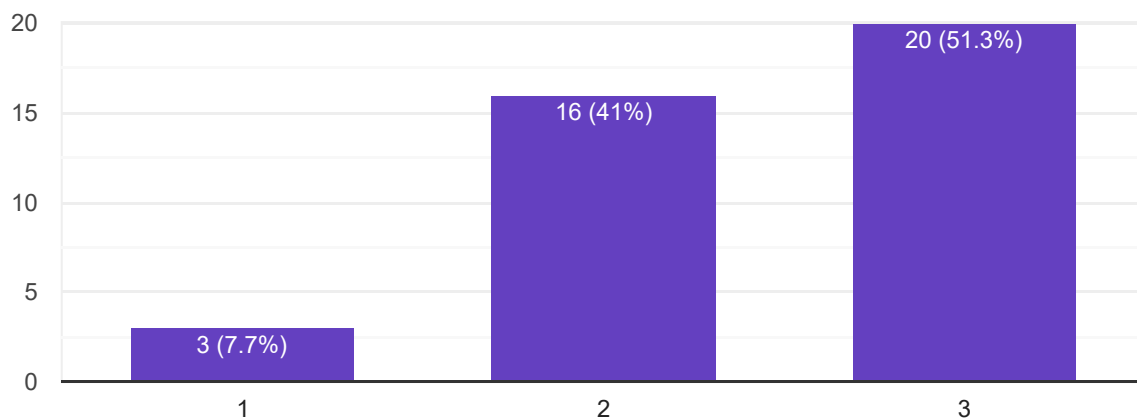
39 responses



Q2. Do you feel that you are able to UNDERSTAND mechanism of metal forming techniques and CALCULATE load required for flat rolling

 Copy

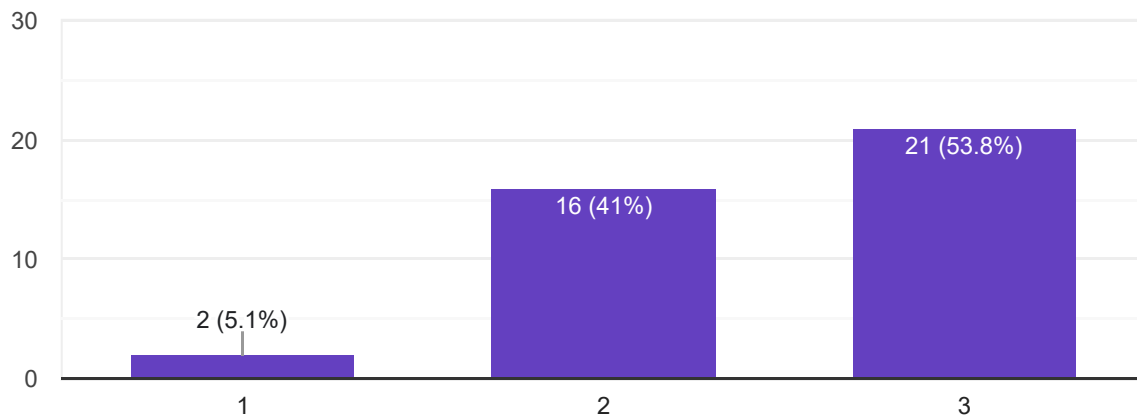
39 responses



Q3. Do you feel that you are able to DEMONSTRATE press working operations and APPLY the basic principles to DESIGN dies and tools for forming and shearing operations



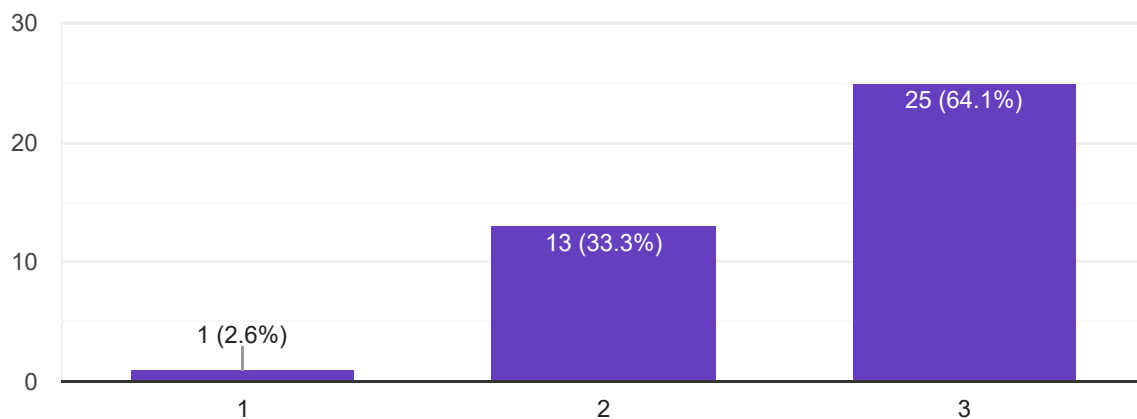
39 responses



Q4. Do you feel that you are able to CLASSIFY and EXPLAIN different welding processes and EVALUATE welding characteristics



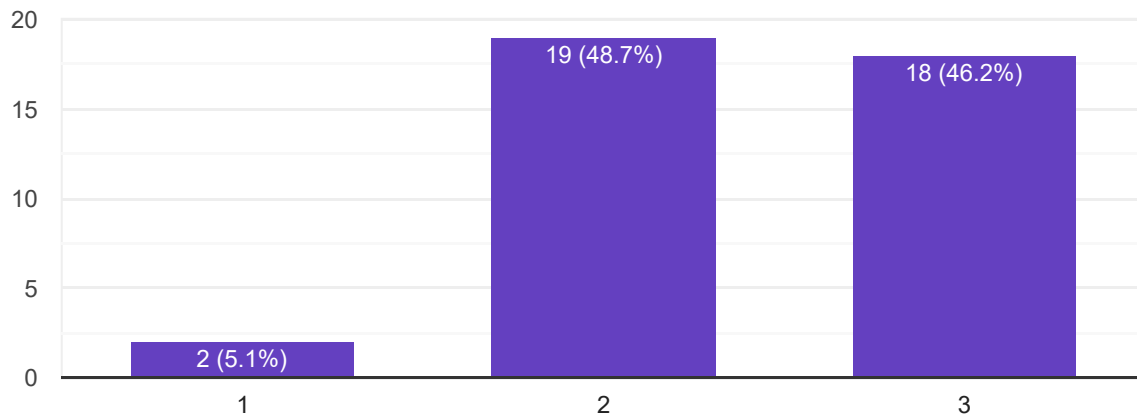
39 responses



Q5. Do you feel that you are able to DIFFERENTIATE thermoplastics and thermosetting and EXPLAIN polymer processing techniques



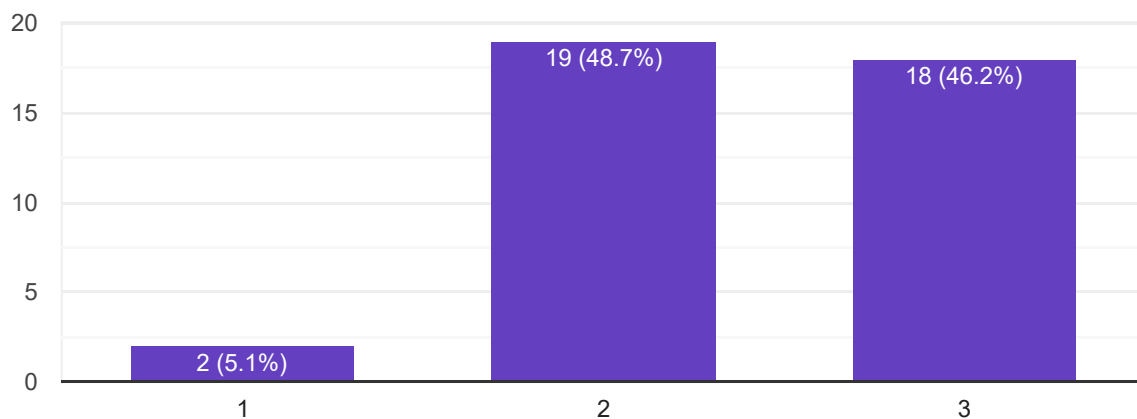
39 responses



Q6. Do you feel that you are able to UNDERSTAND the principle of manufacturing of fibre-reinforce composites and metal matrix composites.



39 responses



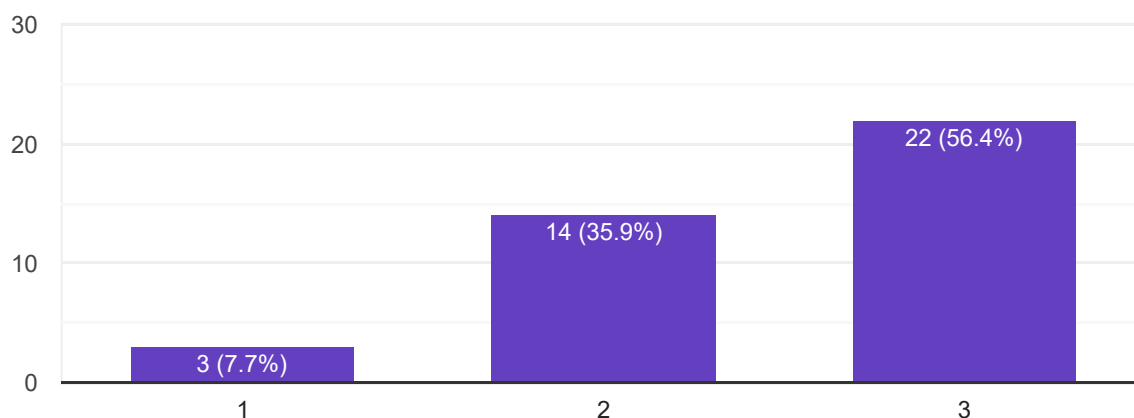
Project Based Learning II



Q1. Do you feel that you are able to IDENTIFY the real-world problem through a rigorous literature survey and formulate / set relevant aims and objectives.

 Copy

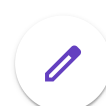
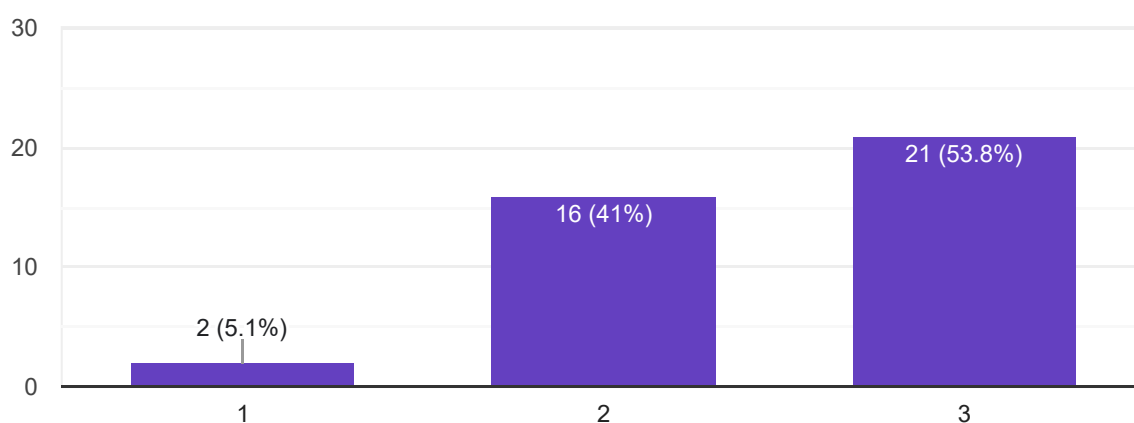
39 responses



Q2. Do you feel that you are able to ANALYZE the results and arrive at valid conclusions.

 Copy

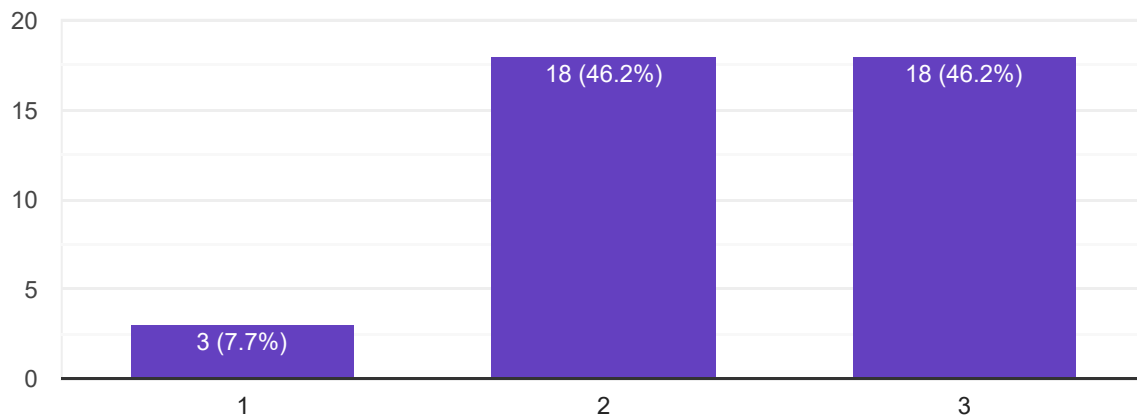
39 responses



Q3. Do you feel that you are able to PROPOSE a suitable solution based on the fundamentals of mechanical engineering by possibly integration of previously acquired knowledge.

 Copy

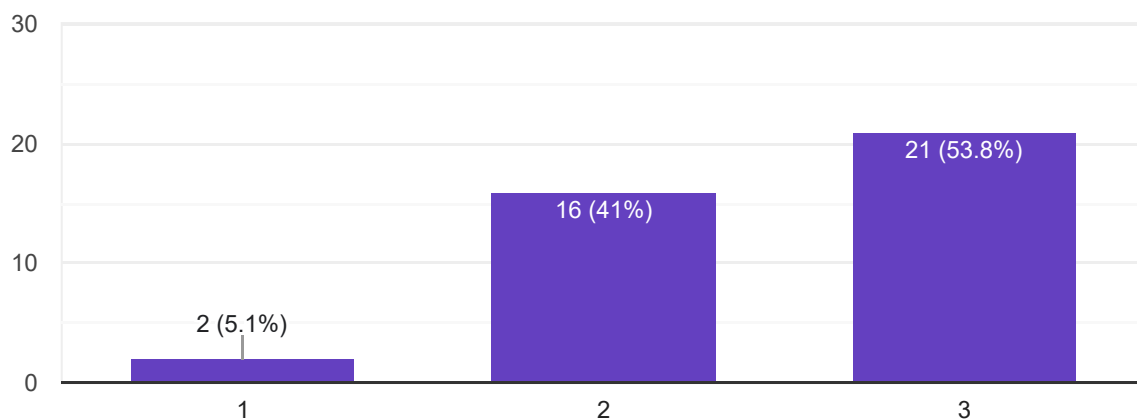
39 responses



Q4. Do you feel that you are able to CONTRIBUTE to society through proposed solutions by strictly following professional ethics and safety measures.

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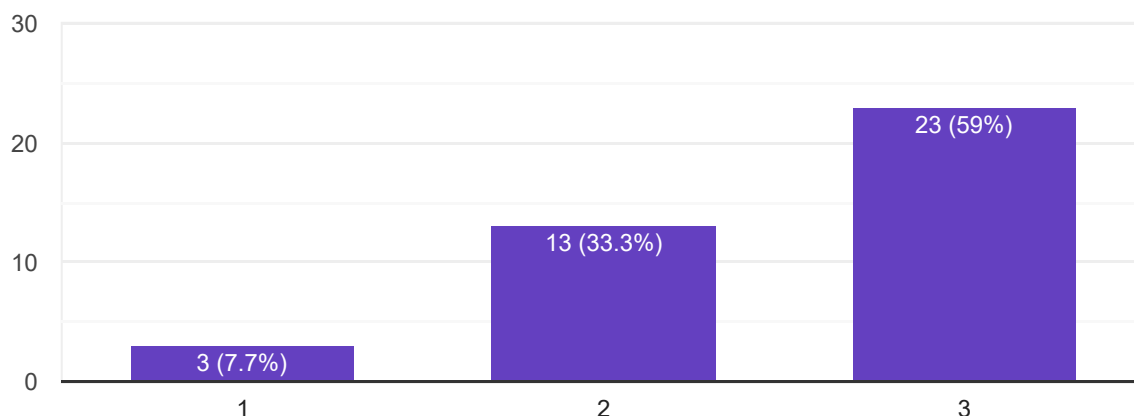
39 responses



Q5. Do you feel that you are able to USE of modern tools and technology in proposed work and demonstrate learning in oral and written form.

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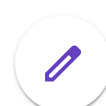
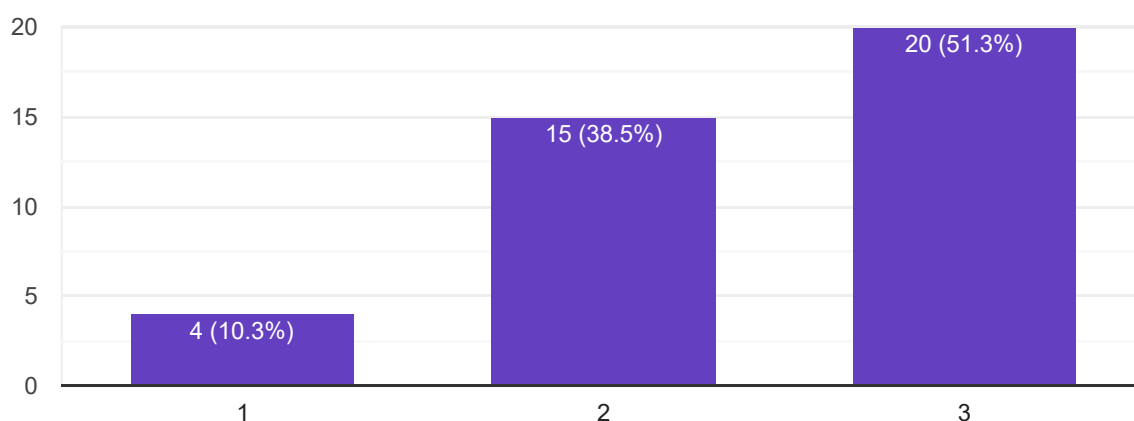
39 responses



Q6. Do you feel that you are able to DEVELOP ability to work as an individual and as a team member.

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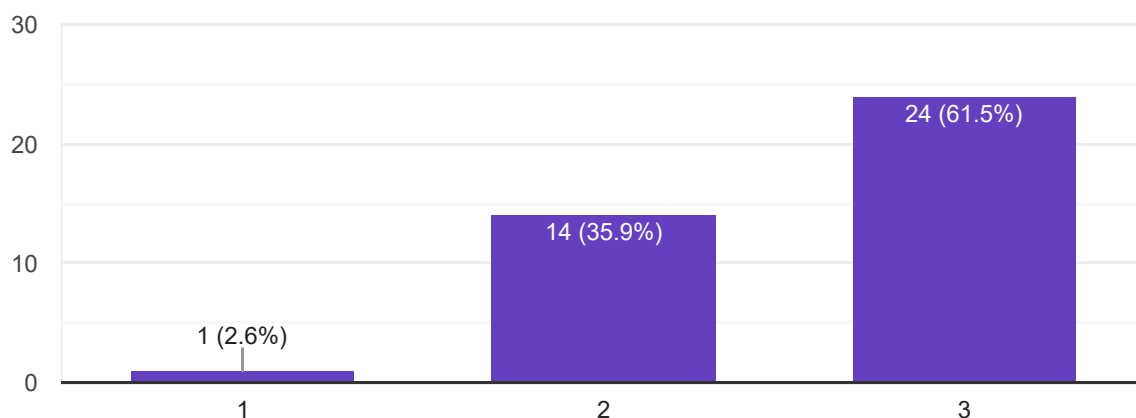
39 responses



Q1. Do you feel that you are able to Solve higher order linear differential equations and apply to modeling and analyzing mass spring systems.

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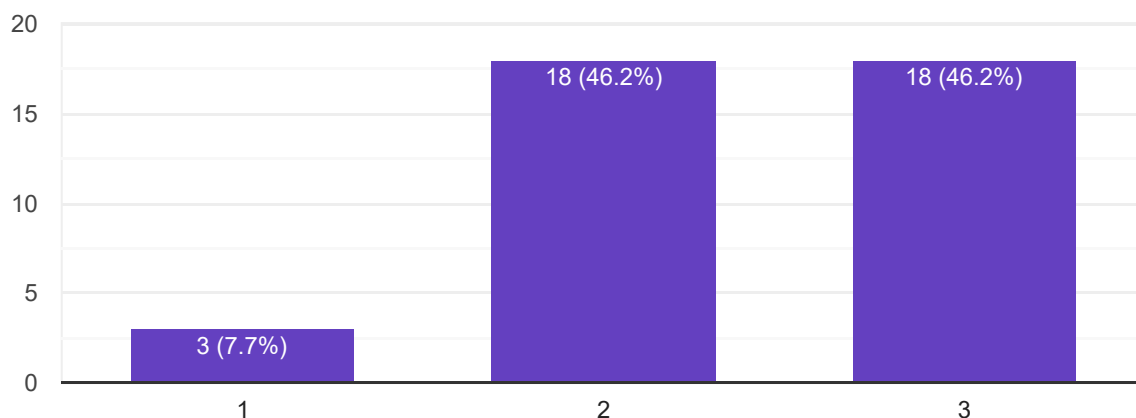
39 responses



Q2. Do you feel that you are able to Apply Laplace transform and Fourier transform techniques to solve differential equations involved in Vibration theory, Heat transfer and related engineering applications.

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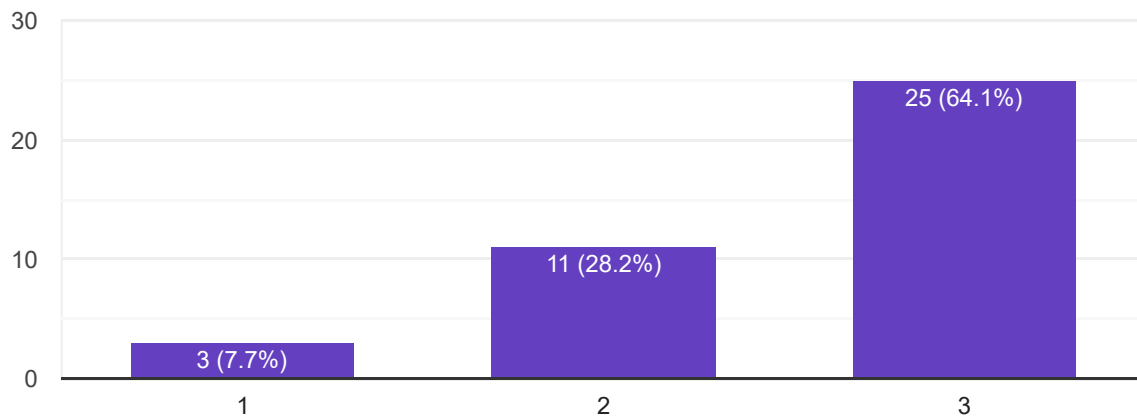
39 responses



Q3. Do you feel that you are able to Apply statistical methods like correlation, regression analysis in analyzing, interpreting experimental data and probability theory in testing and quality control.

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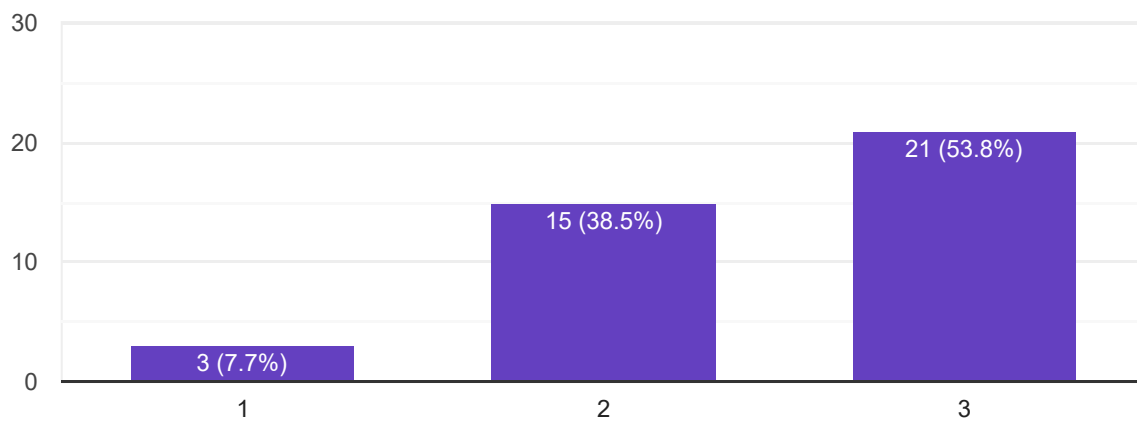
39 responses



Q4. Do you feel that you are able to Perform vector differentiation , analyze the vector fields and apply to fluid flow problems.

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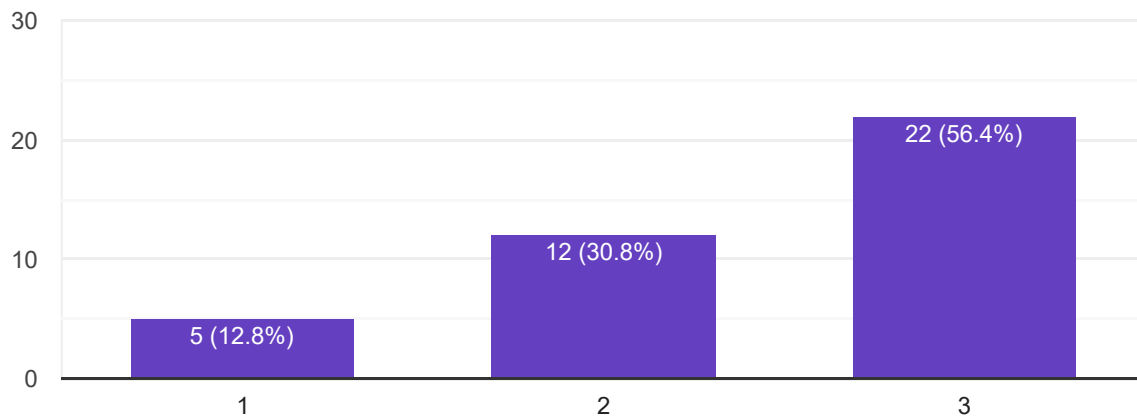
39 responses



Q5. Do you feel that you are able to Perform vector integration, analyze the vector fields and apply to fluid flow problems.

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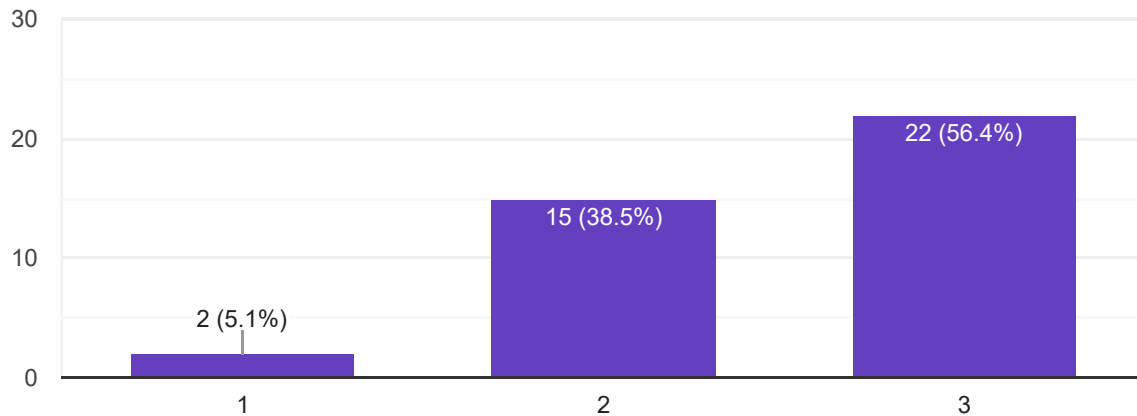
39 responses



Q6. Do you feel that you are able to Solve various partial differential equations such as wave equation, one and two dimensional heat flow equations.

 Copy

39 responses



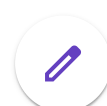
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HOD, Mechanical





Department of Mechanical Engineering - SE Mechanical Sandwich , SEM I 2022 23 COURSE END SURVEY

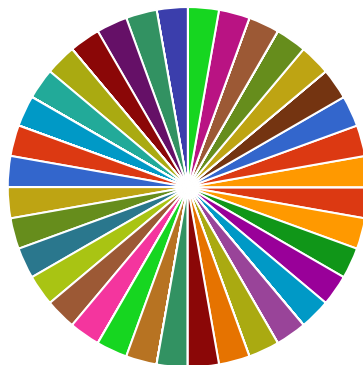
36 responses

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Your Name

 Copy

36 responses



- Aditya Anil Chavan
- Akole Rohan Kishor
- Amrale Ritvik Shahshikant
- Apte Deepankar Raghunath
- Atar Saad Sameer
- Athwani Girish Manoj
- Balkavade Aditya Sachin
- Bhajantri Raghvendra Bhimrao

▲ 1/9 ▼

Electrical and Electronics Engineering

Scale - 1 to 3 ----> 1 - Low, 2 - Medium, 3 - High

SVL

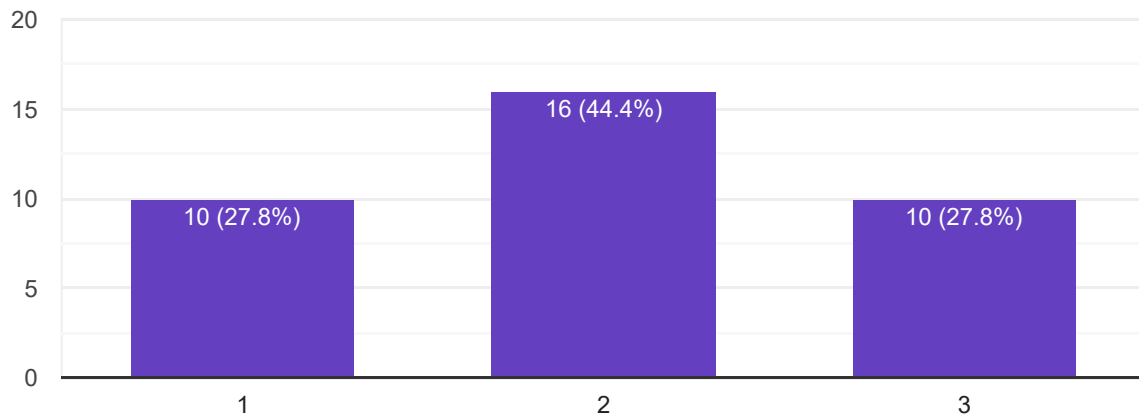
HOD , Mechanical



Q1. Do you feel that you are able understand Arduino IDE; an open source platform and its basic programming features



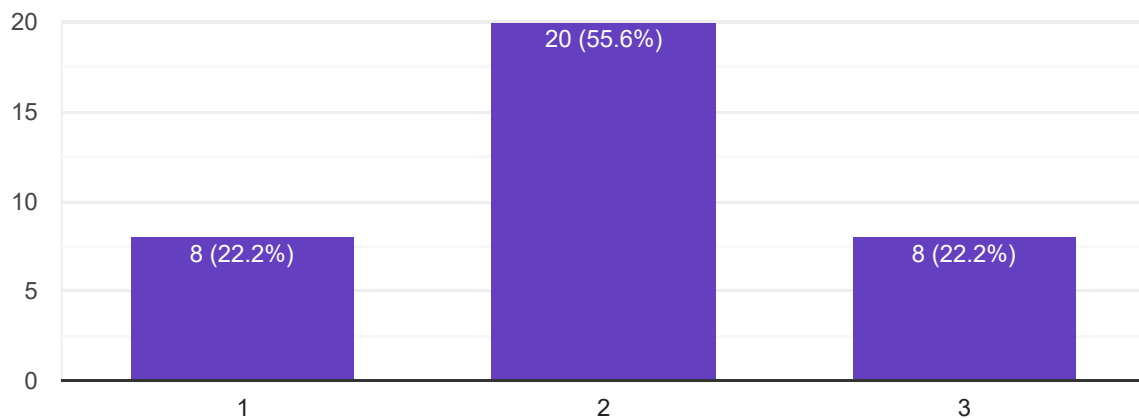
36 responses



Q2. Do you feel that you are able to interface Atmega328 based Arduino board with different devices and sensors



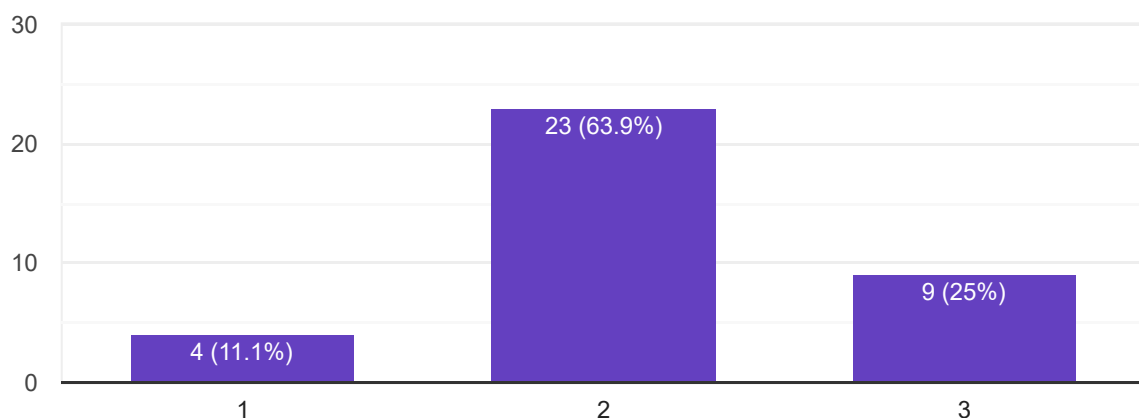
36 responses



Q3. Do you feel that you are able to study principle of operation of DC machines and speed control of DC motors



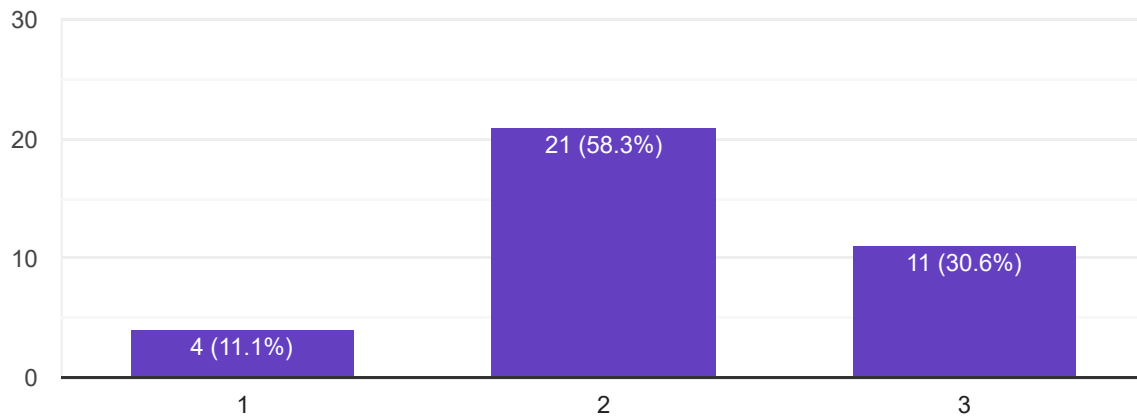
36 responses



Q4. Do you feel that you are able to know about three phase induction motor working and its applications

 Copy

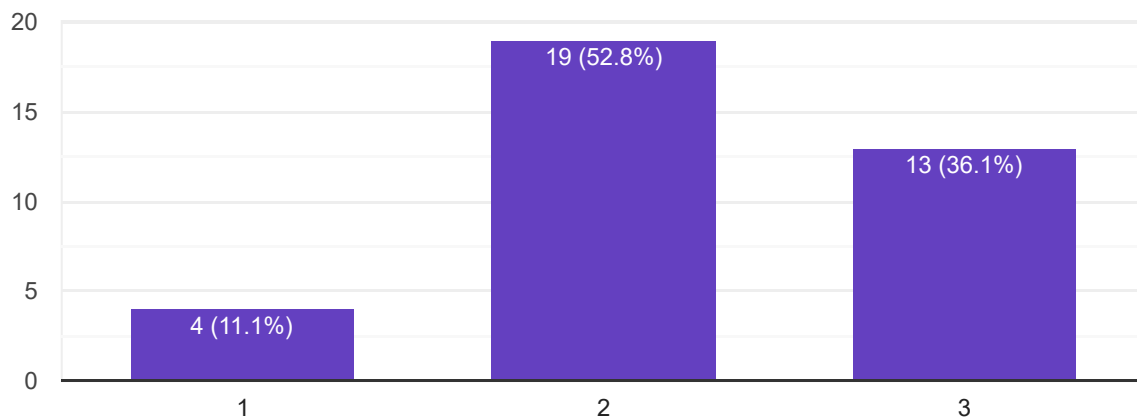
36 responses



Q5. Do you feel that you are able to get acquainted with Electric Vehicle (EV) technology and subsystems

 Copy

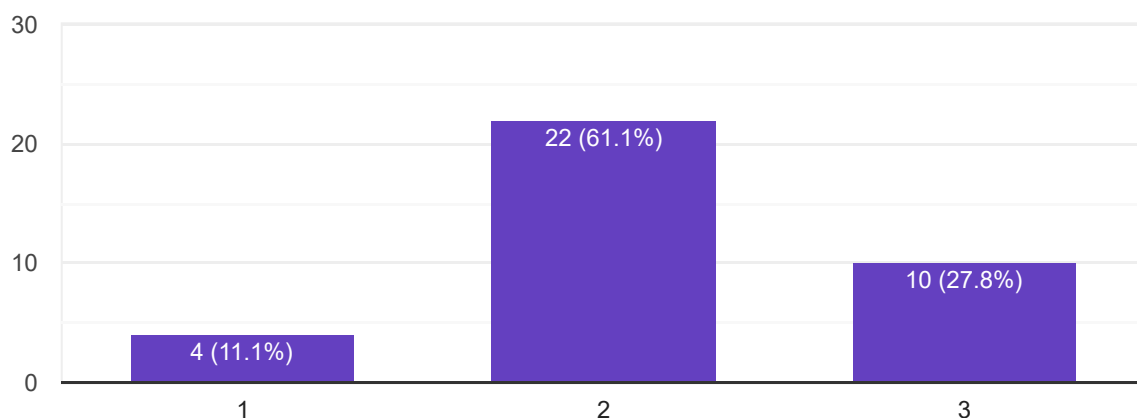
36 responses



Q6. Do you feel that you are able to get familiar with various energy storage devices and electrical drives

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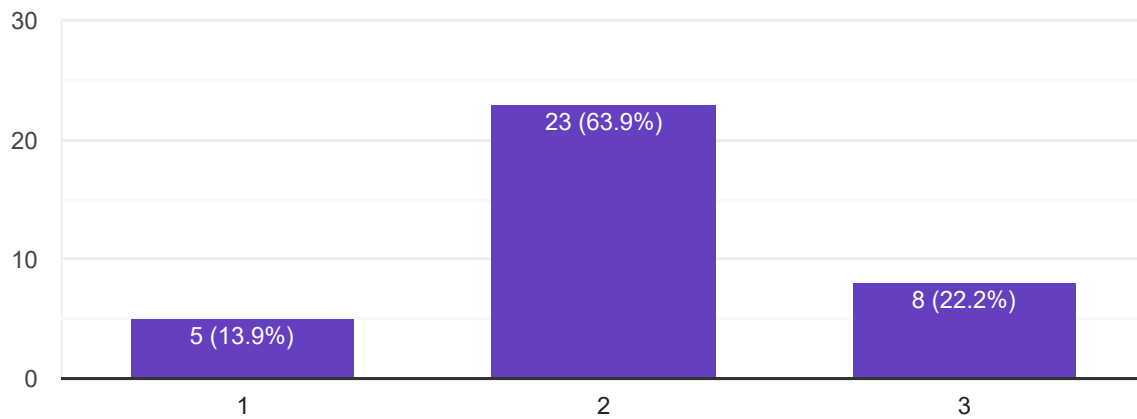
36 responses



Q1 Do you feel that you are able to COMPARE crystal structures and ASSESS different lattice parameters.

 Copy

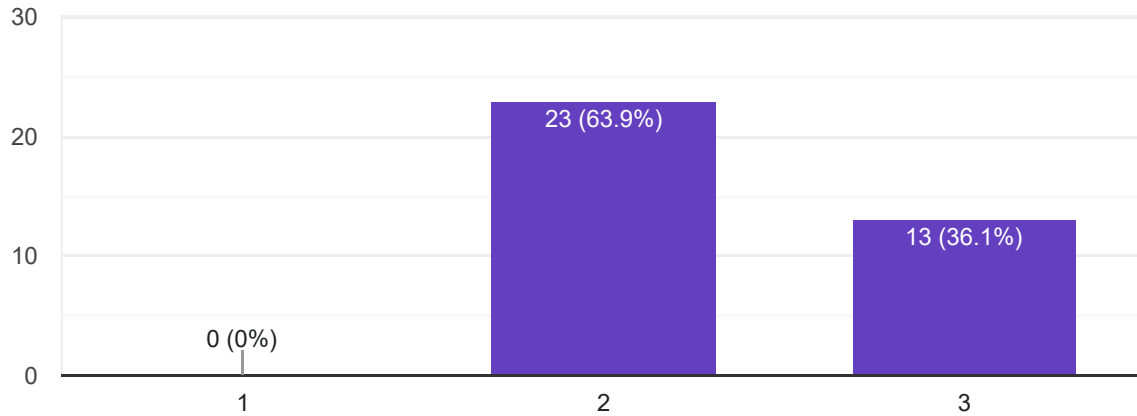
36 responses



Q2. Do you feel that you are able to DIFFERENTIATE and DETERMINE mechanical properties using destructive and non-destructive testing of materials.

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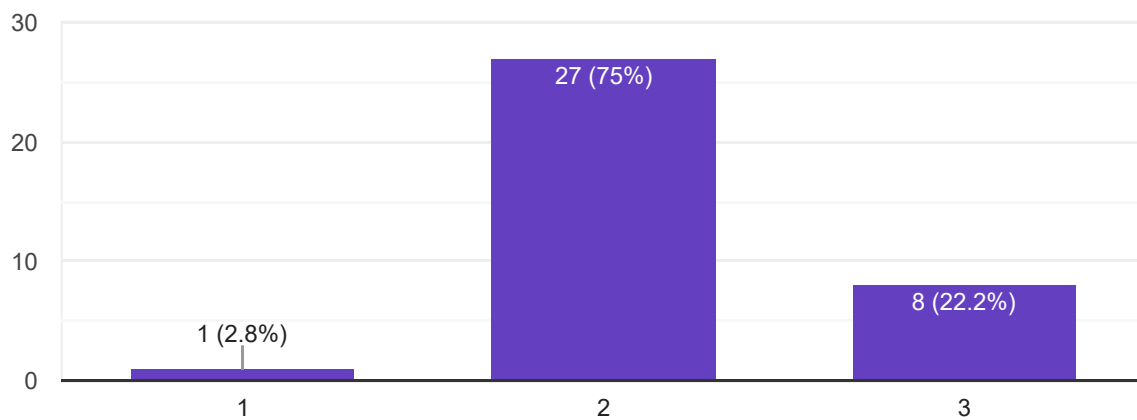
36 responses



Q3. Do you feel that you are able to IDENTIFY & ESTIMATE different parameters of the system viz., phases, variables, component, grains, grain boundary, and degree of freedom. etc.

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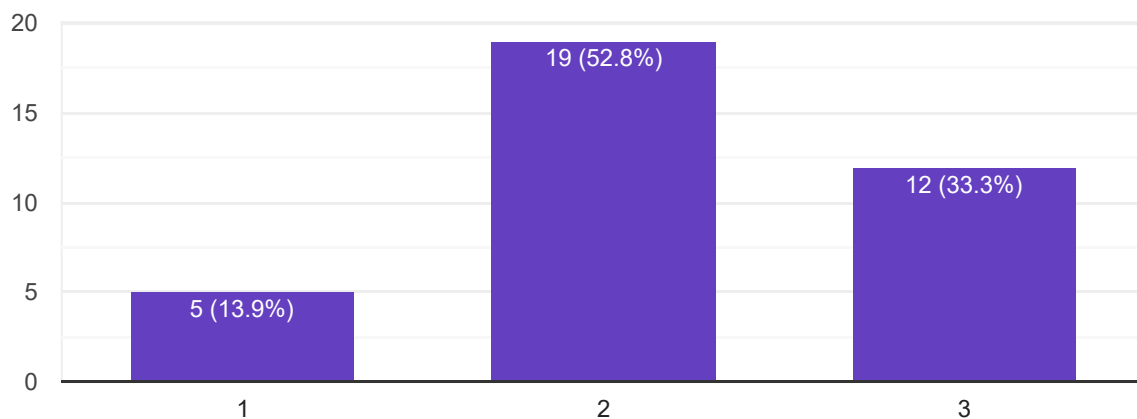
36 responses



Q4. Do you feel that you are able to ANALYSE effect of alloying element & heat treatment on properties of ferrous & nonferrous alloy.

 Copy

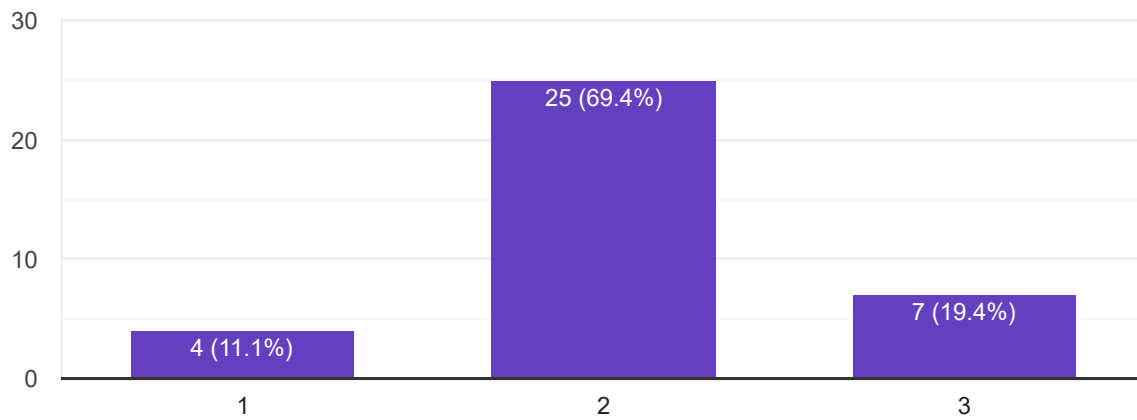
36 responses



Q5. Do you feel that you are able to Discuss various Ferrous metals with its application and Analyze the microstructures of ferrous materials and its effects on mechanical properties.

 Copy

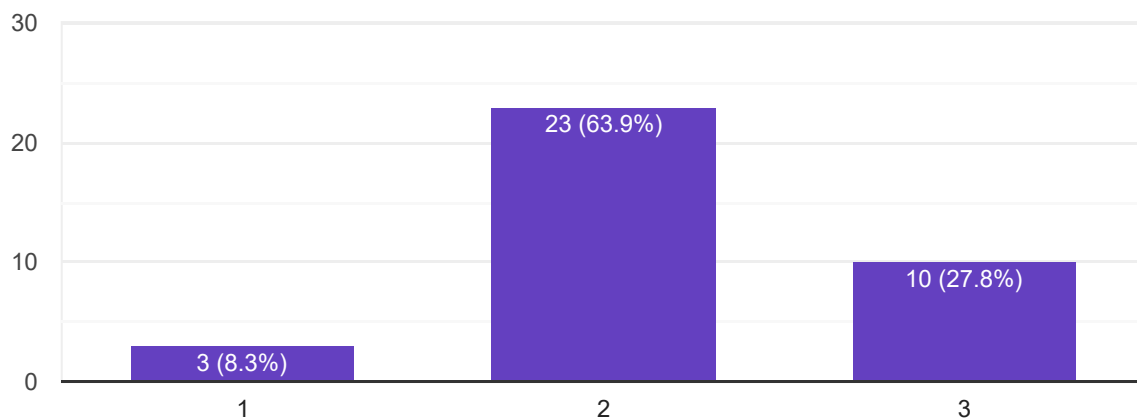
36 responses



Q6. Do you feel that you are able to Select proper non-metal,their alloys & additive manufacturing technique for specific requirement.

 Copy

36 responses



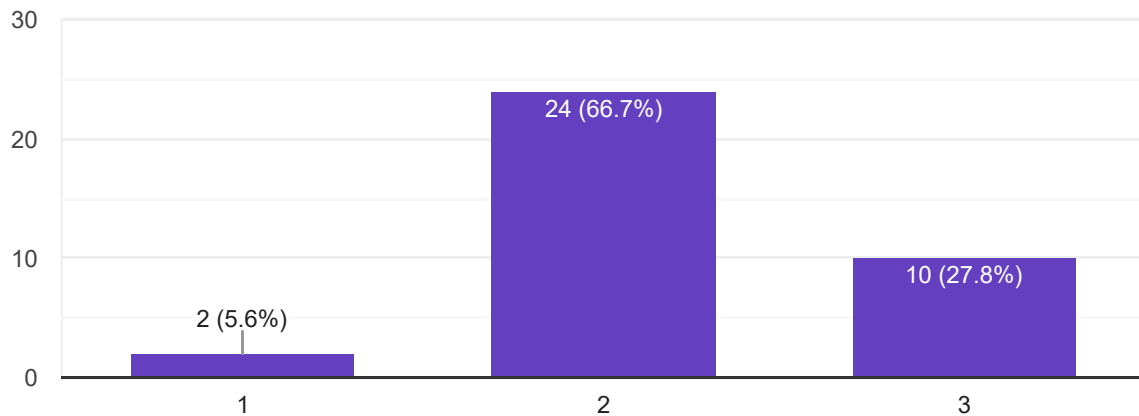
Engineering Thermodynamics



Q1. Do you feel that you are able to DESCRIBE the basics of thermodynamics with heat and work interactions.

 Copy

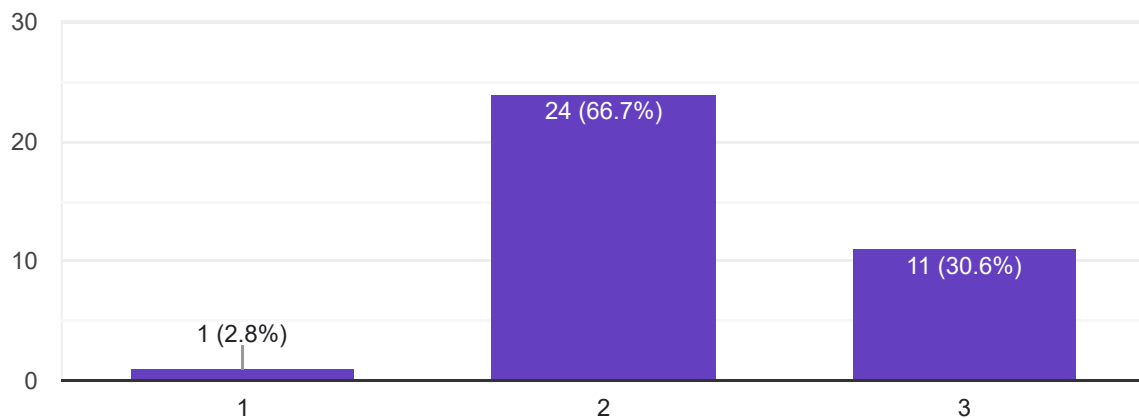
36 responses



Q2. Do you feel that you are able to APPLY laws of thermodynamics to steady flow and non-flow processes.

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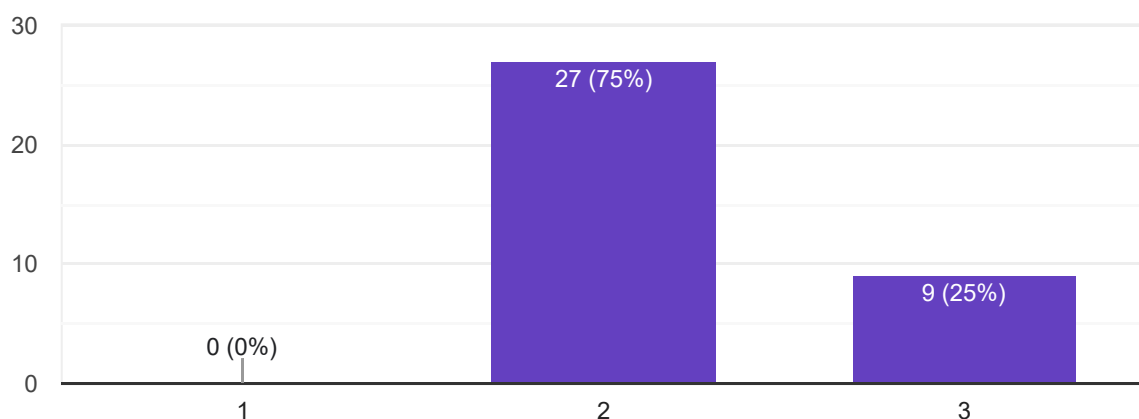
36 responses



Q3. Do you feel that you are able to APPLY entropy, available and non available energy for an Open and Closed System.

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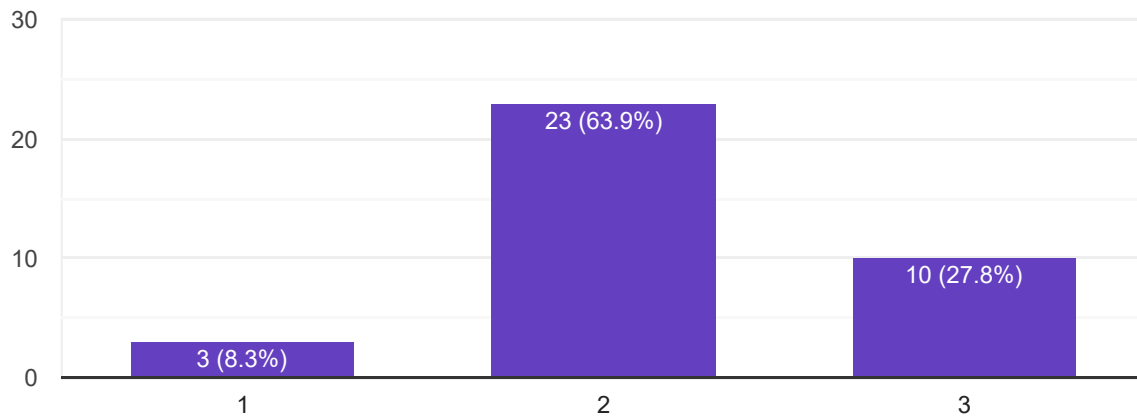
36 responses



Q4. Do you feel that you are able TO DETERMINE the properties of steam and their effect on performance of vapour power cycle.

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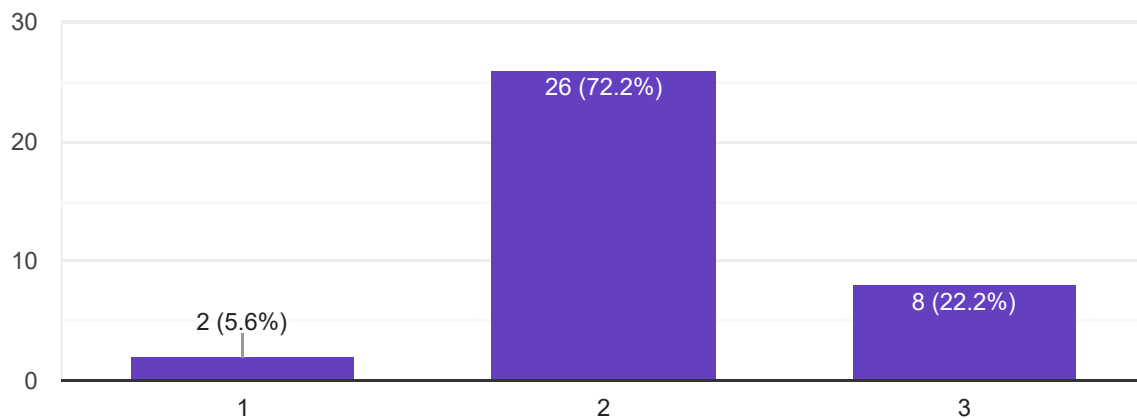
36 responses



Q5. Do you feel that you are able to ANALYSE the fuel combustion process and products of combustion.

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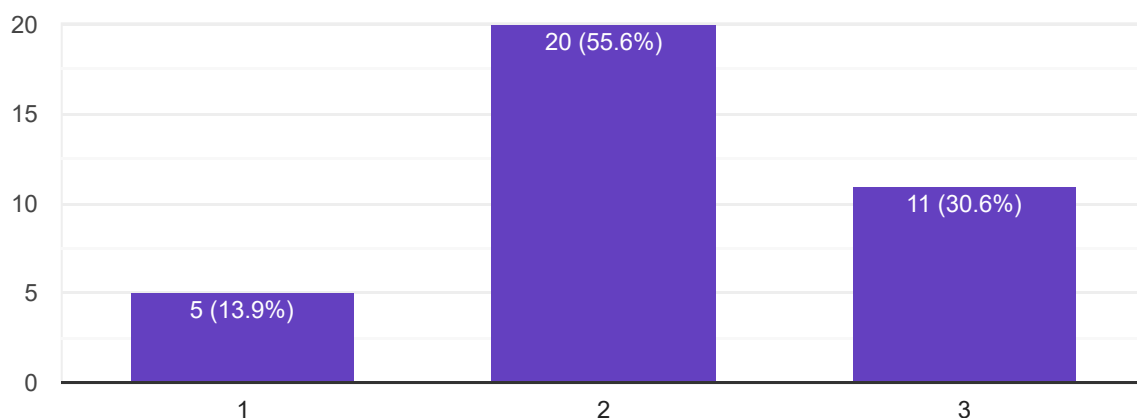
36 responses



Q6. Do you feel that you are able to SELECT various instrumentations required for safe and efficient operation of steam generator.

 Copy

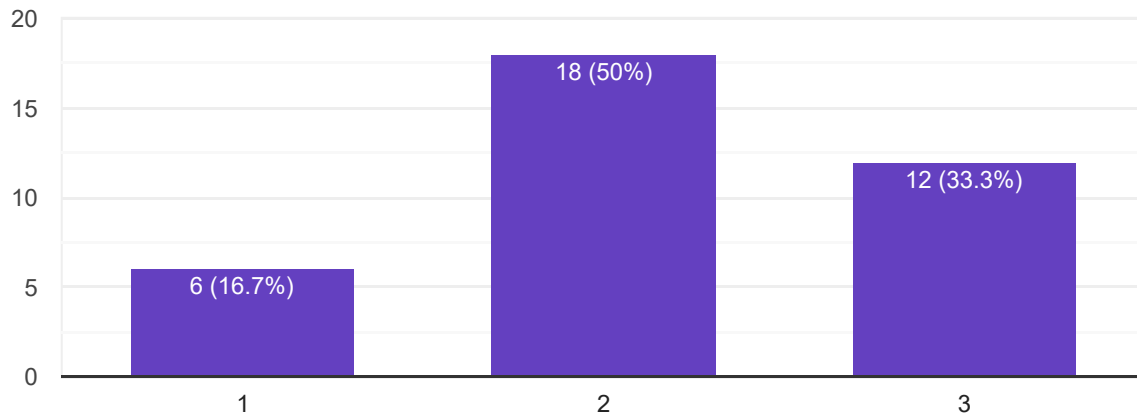
36 responses



Q1. Do you feel that you are able to UNDERSTAND basic concepts of CAD system, need and scope in Product Lifecycle Management.



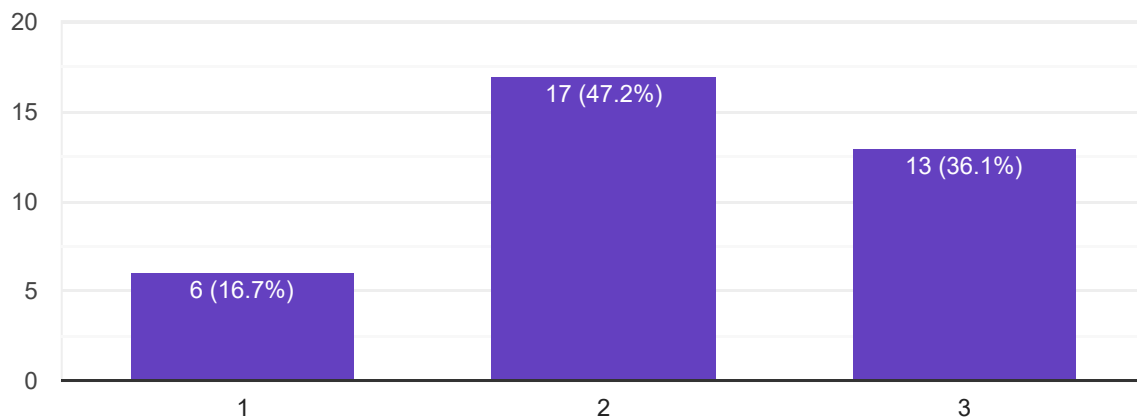
36 responses



Q2. Do you feel that you are able to UTILIZE knowledge of curves and surfacing features and methods to create complex solid geometry.



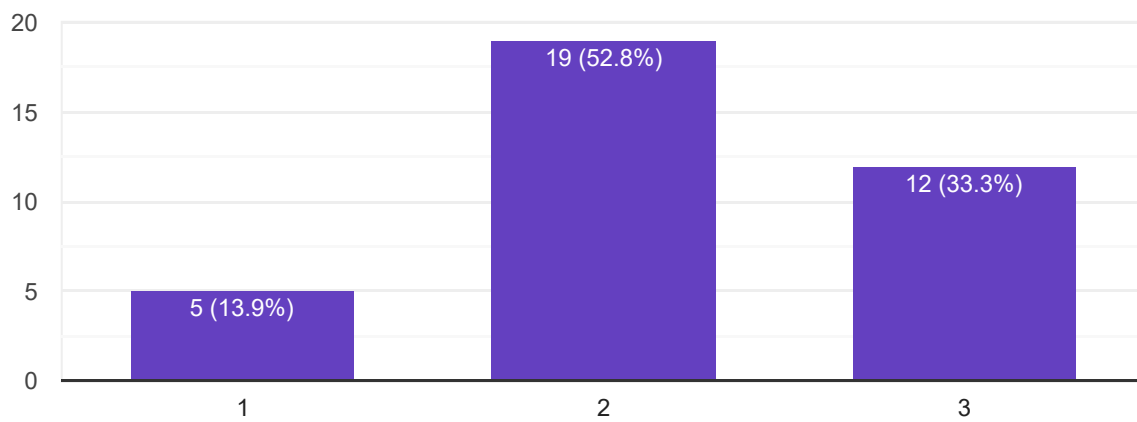
36 responses



Q3. Do you feel that you are able to CONSTRUCT solid models, assemblies using various modeling techniques & PERFORM mass property analysis, including creating and using a coordinate system.

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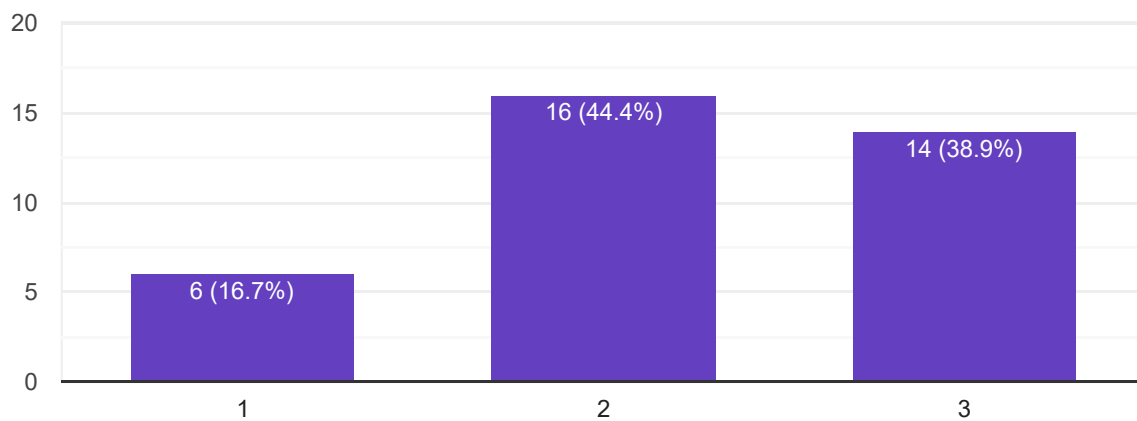
36 responses



Q4. Do you feel that you are able to APPLY geometric transformations to simple 2D geometries.

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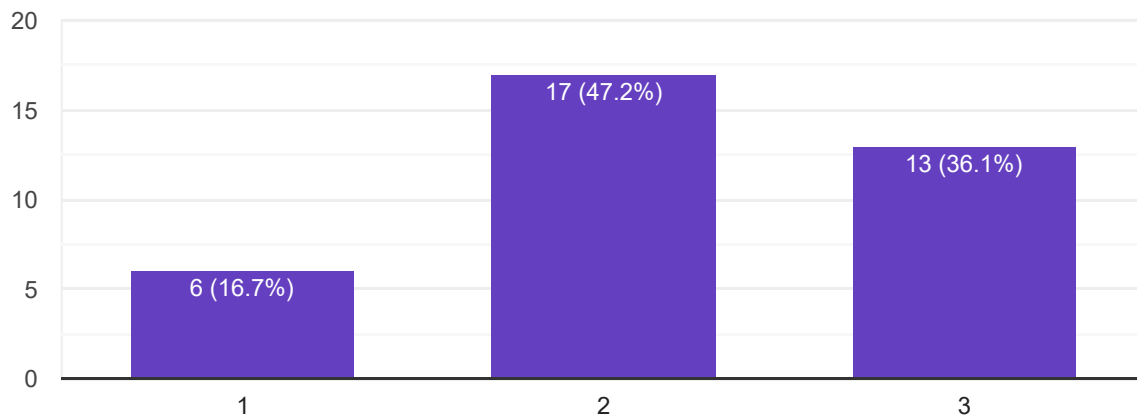
36 responses



Q5. Do you feel that you are able to USE CAD model data for various CAD based engineering applications viz. production drawings, 3D printing, FEA, CFD, MBD, CAE, CAM, etc.



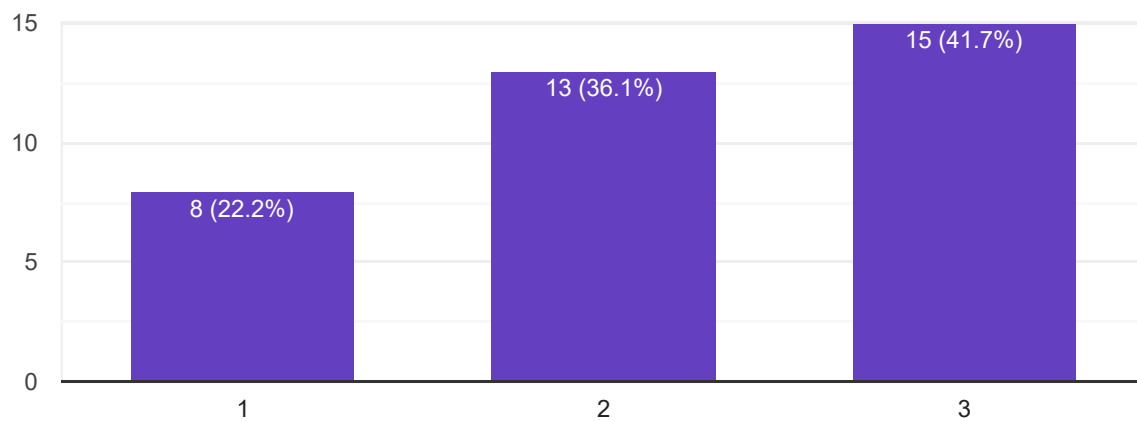
36 responses



Q6. Do you feel that you are able to USE PMI & MBD approach for communication.



36 responses



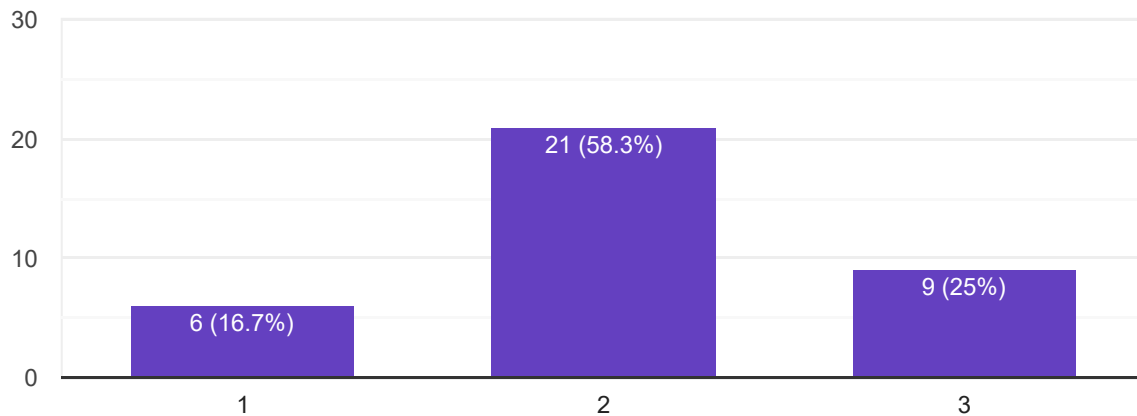
Solid Mechanics



Q1. Do you feel that you are able to DEFINE various types of stresses and strain developed on determinate and indeterminate members.

 Copy

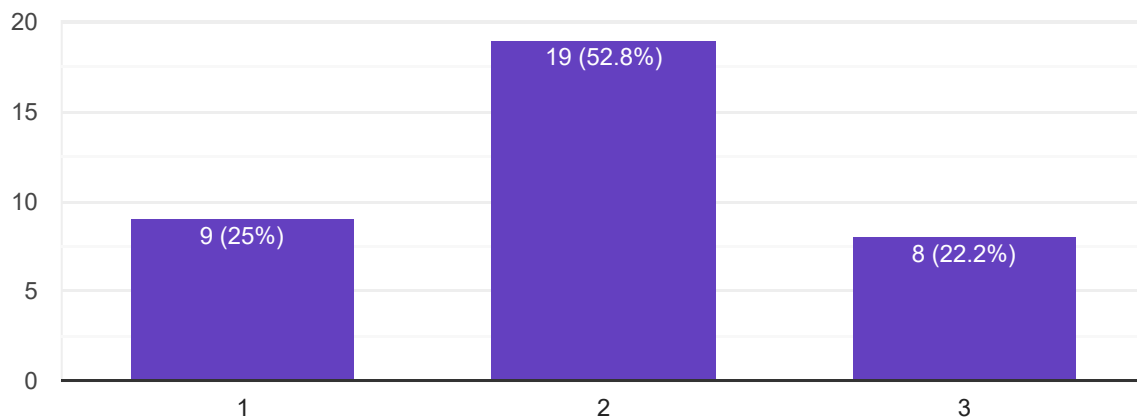
36 responses



Q2. Do you feel that you are able to DRAW Shear force and bending moment diagram for various types of transverse loading and support.

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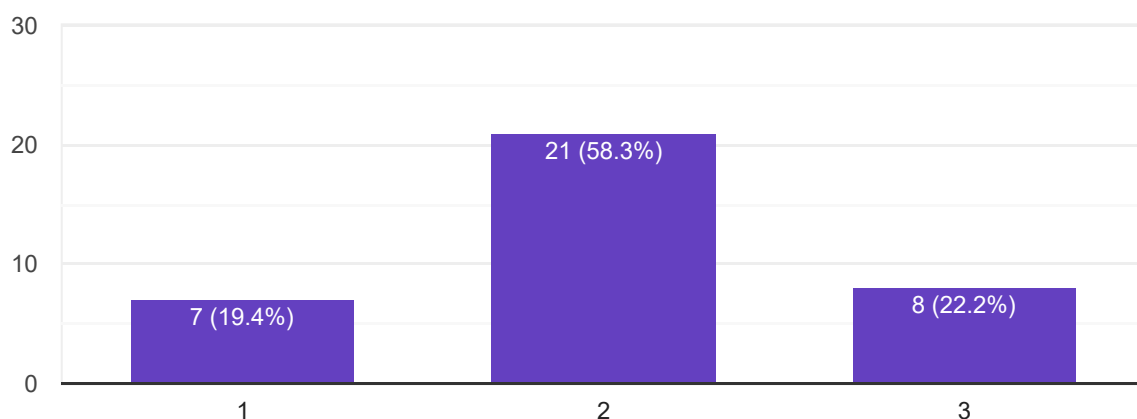
36 responses



Q3. Do you feel that you are able to COMPUTE the slope & deflection, bending stresses and shear stresses on a beam.

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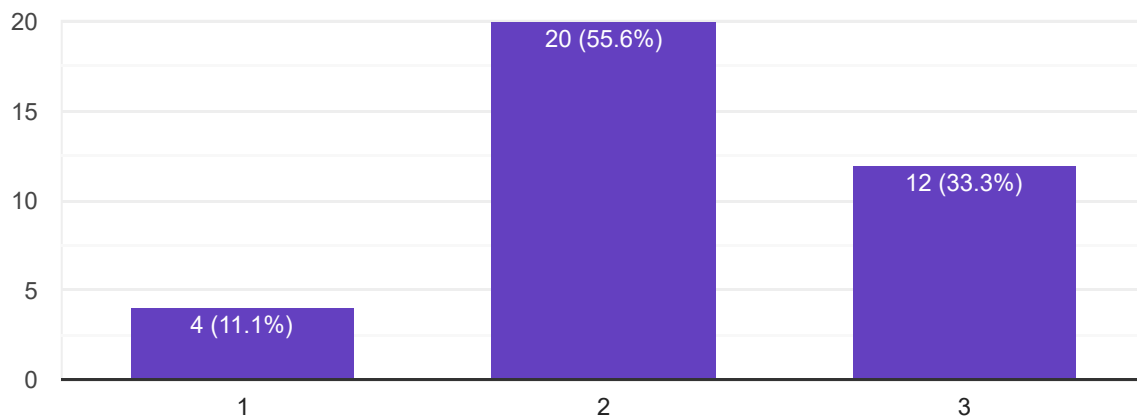
36 responses



Q4. Do you feel that you are able to CALCULATE torsional shear stress in shaft and buckling on the column.

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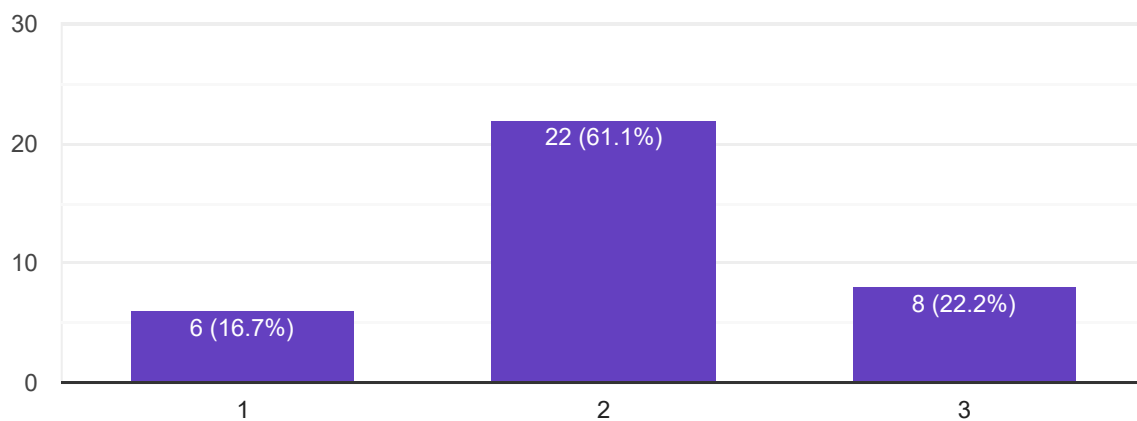
36 responses



Q5. Do you feel that you are able to APPLY the concept of principal stresses and theories of failure to determine stresses on a 2-D element.

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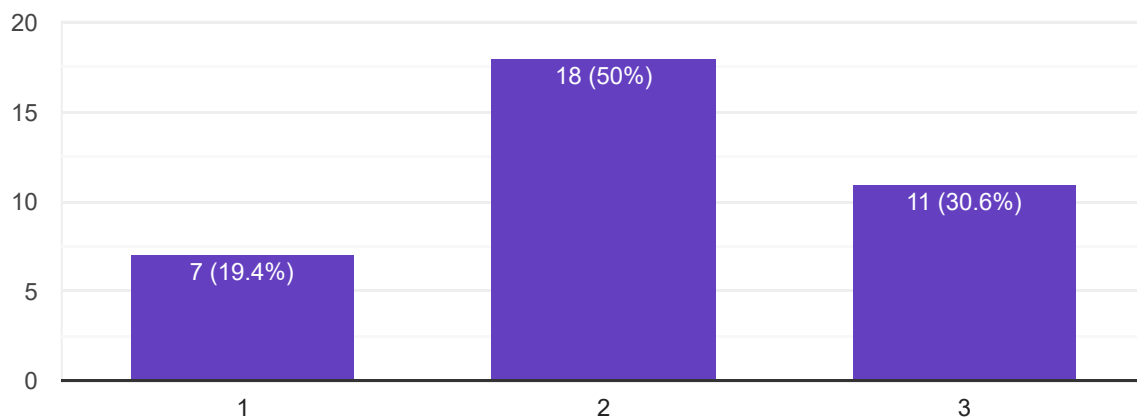
36 responses



Q6. Do you feel that you are able to UTILIZE the concepts of SFD & BMD, torsion and principal stresses to solve combined loading application based problems.

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36 responses



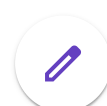
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SV

HOD, Mechanical





COURSE END SURVEY - Kinematics Design of Machine - 2022-23

26 responses

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NAME OF STUDENT

26 responses

Purvesh Dhake

Saishnu Gharote

Pratik Trushant Gaikwad

Kale Pranav Pratap

Yash Tadas

Naik Ruturaj Vijay

Aditya Kailas Patil

Suraj Ramdas Dhokare

Atharva Umesh Parnerkar

EKTA SHANMUKH THAKUR

Atharva Mandhare

Deshmukh Shriganesh Pravinchandra

Mohd Touseef

Kunal Sureshchand Rathor

Rahul Gore

Krishna Bhagat

Satyajeet

Sanket Sonawane

Aditya Girish Kachi

Sahil Bhosale

Omkar Bhosale



Shardul Mahajan

Khan Muhammed Jawwad Azaz

Gaurav kardille

Nilesh Sanjay More

Prathmesh mohan talekae



Roll No.

26 responses

21- PS 305

20PS003

21PS306

21PS309

20PS008

21PS314

20PS007

20PS002

21PS315

21PS319

20ps005

21PS304

20PS006

21PS316

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21PS317

21PS308

20PS001

21PS302



21PS312

21PS311

21ps310

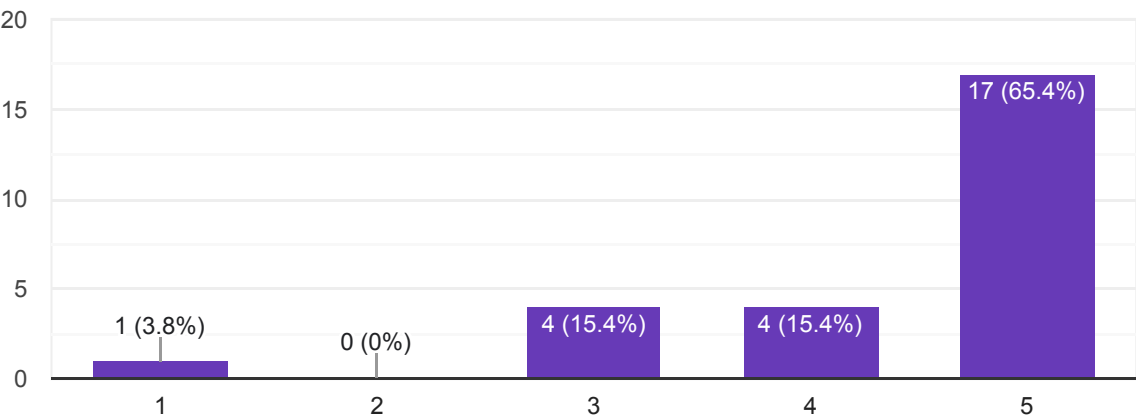
21PS313

21ps318

How comfortable you were with teaching

26 responses

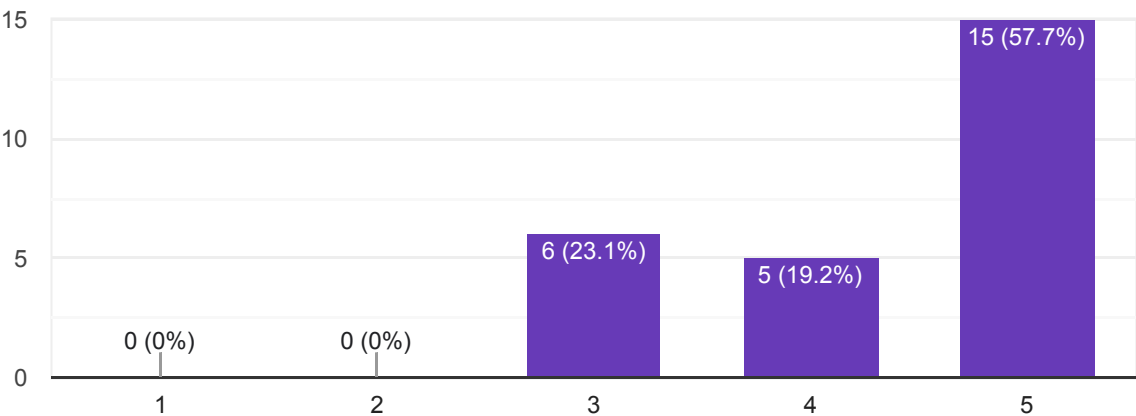
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You were able to understand whatever was taught .

26 responses

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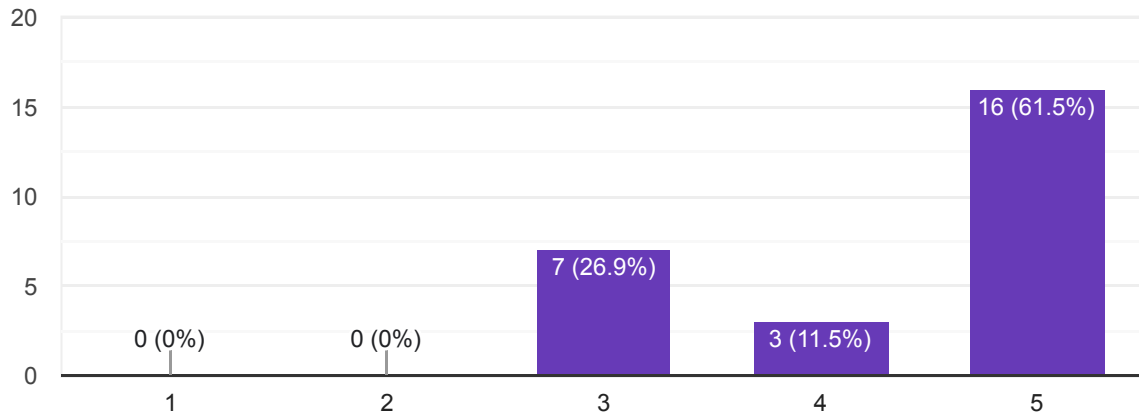
f. vaishay
Head of Department
Production Engineering
AISSEMS COE, PUNE 1



Are you able to carry out kinematic synthesis, analysis of simple mechanisms.

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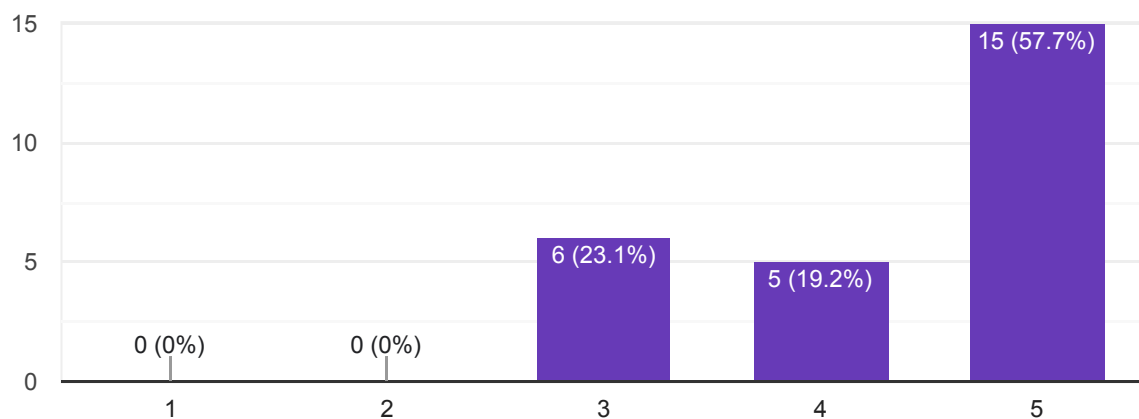
26 responses



Are you able to apply the fundamentals of kinematics for analysis of gears & gear trains.

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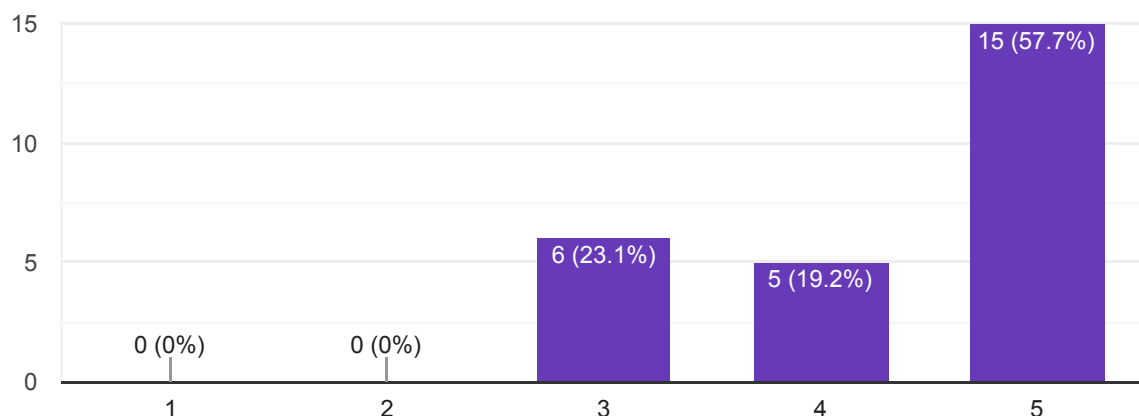
26 responses



Are you able to apply the fundamentals of kinematics for analysis of cams and flywheel .

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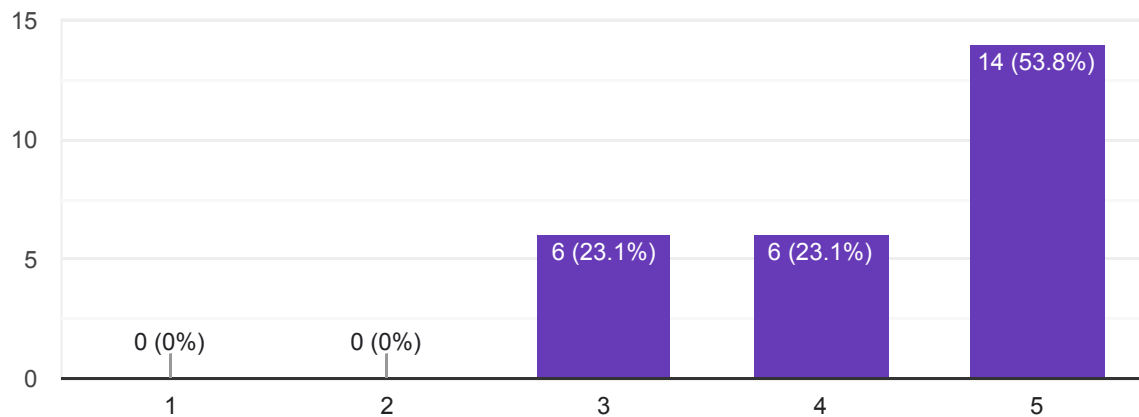
26 responses



Are you able to design the simple components such as shaft, beam subjected to fluctuating loading.

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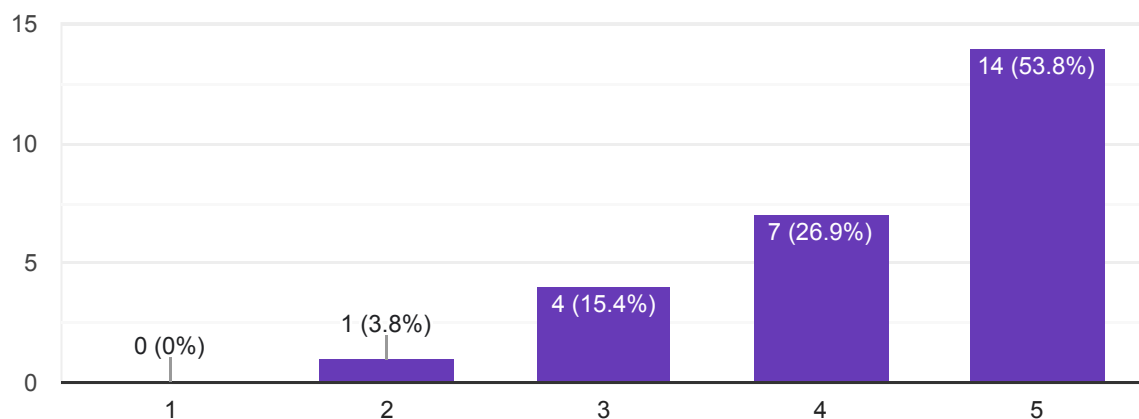
26 responses



Are you able to use the statistical consideration to design problem.

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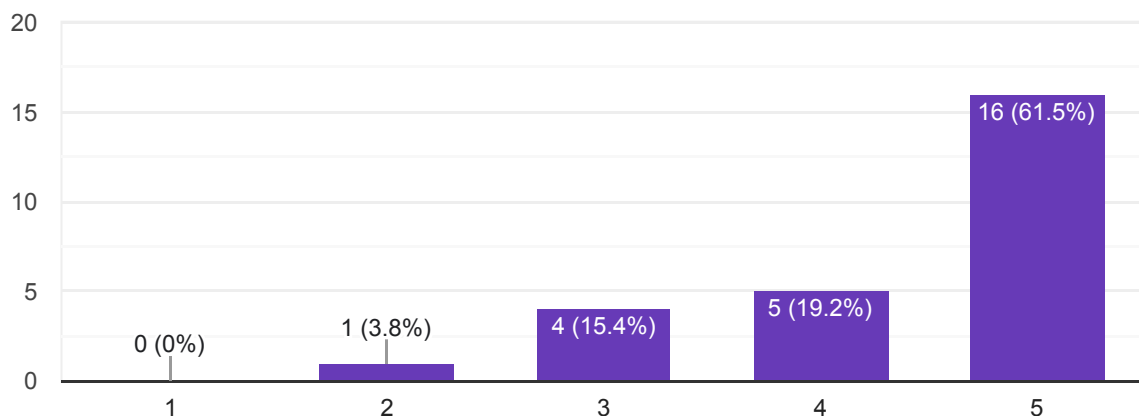
26 responses



Are you able to design the simple components such as shaft, spring by using optimum design.

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26 responses



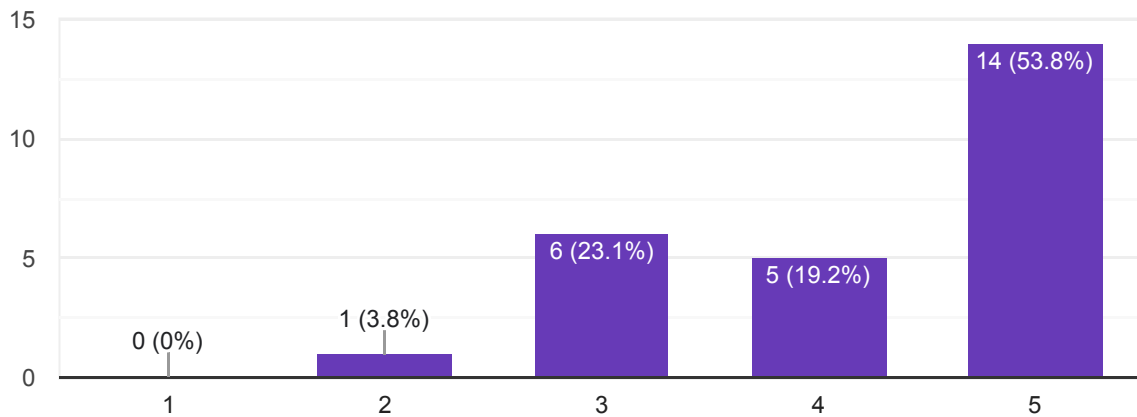
f. Vaidhyan
Head of Department
Production Engineering
AISEMS COE, PUNE I



How confident are you in applying what you have learned?

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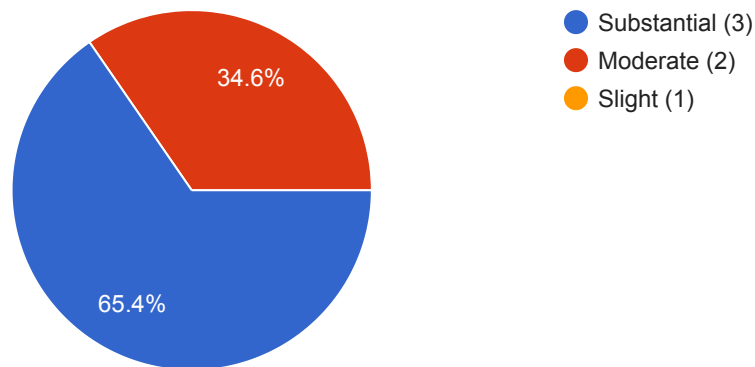
26 responses



The course and subject matter were well organized and communicated effectively

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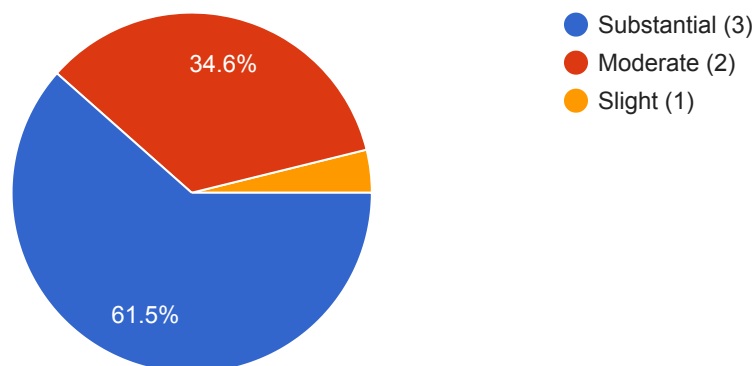
26 responses



Tests, assignments/Case Studies were useful and grading was fair

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26 responses



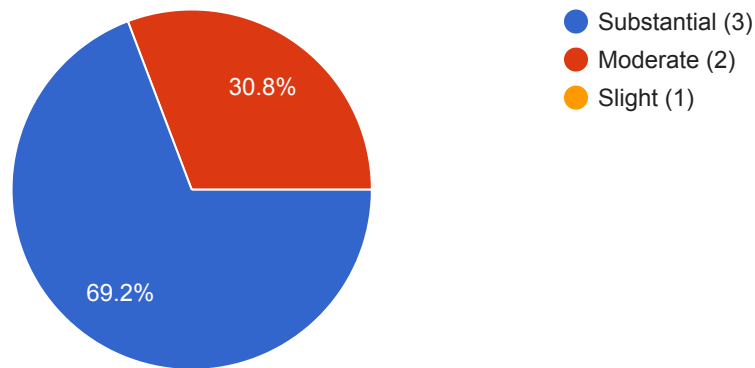
f. Vaidhyan
Head of Department
Production Engineering
AISSMS COE, PUNE



Instructional approach(es) used was (were) appropriate to the course

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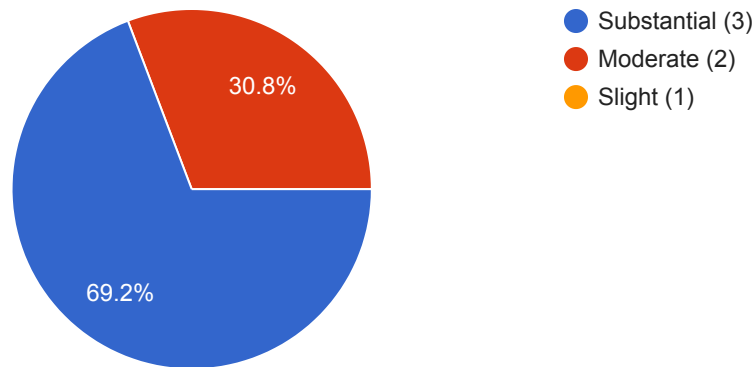
26 responses



You gave your best efforts in tests and assignments

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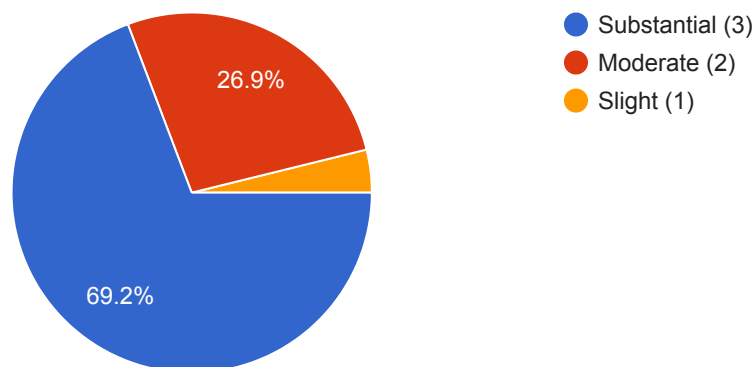
26 responses



Teacher motivated you to do your best work

 Copy

26 responses




Head of Department
Production Engineering
AISSE COE, PUNE I



What was the most effective part of this course?

26 responses

.

Teaching

Cams

Flywheel

Kinematics

Good subject

Learn something new

Method

Mechanisms

Nice

Design of fluctuation of loads

Design problem

It's very intersting

Synthesis

The theroy related to Cam and follwer

This subject is useful for future studies

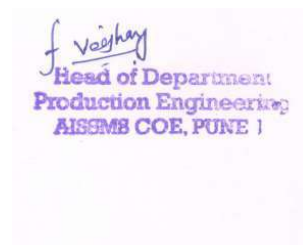
Good

Machine learning

Teaching skills

No

Unit 2



Good teaching

Do you suggest any addition or deletion in the syllabus that would have made learning more effective?

26 responses

No

.

No suggestions

No

Na

Derivations to be easier to understand

Good

Yes

NO

Have you observed lack of facilitates which affected course learning? If Yes, mention below

26 responses

No

.

Yes

Ppt , notes

Good

f. Vaishay
Head of Department
Production Engineering
AISEMS COE, PUNE I



What are your suggestions, if any, for changes that would improve this course?

26 responses

No

.

Nothing

Good

No suggestions

No comments

No change

Na

None

Add design materials and focus on design of machine

Provide question bank to students

No suggestion

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AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय



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(U.No. PUPN/Engg/093 (1992)
Accredited by NAAC with "A+" Grade | NBA - 6 UG Programmes

Internal Quality Assurance Cell

STAKEHOLDERS FEEDBACK ANALYSIS AND ACTION TAKEN REPORT

**DEPARTMENT
OF
ELECTRICAL ENGINEERING**

Academic Year 2022-23

We, at AISSMS COE firmly believe that one can improve if one knows the shortcomings. The various feedback systems in our institution are a testimony to our belief. AISSMS COE employs a transparent and robust feedback system.

The purpose of this feedback process is to provide a structure for obtaining, summarizing and documenting information on the stakeholder perceptions of the quality and effectiveness of the Institute's processes and procedures for various academic and administrative activities.

Various modes of interaction with all internal and external stakeholders are planned at department level as mentioned in below table. Suggestion received from these interactions are analyzed and corrective actions are initiated at department level.

| S. N. | Nature of interaction | Frequency |
|-------|---|-------------------------------|
| 01 | Induction program for all classes | At the start of academic year |
| 02 | Program Assessment and Quality Improvement Committee meetings | Twice in a semester |
| 03 | Department Advisory Board meeting | Once in a year |
| 04 | Department meetings with faculty | Every week |
| 05 | Parent meet | Once in a academic year |
| 06 | Industry meet | Once in a academic year |
| 07 | Alumni meet | Once in a academic year |
| 08 | Feedback of stakeholders on curriculum | Once in a academic year |
| 09 | Student – faculty feedback | Twice in a semester |
| 10 | Meeting / interaction of HoD / Principal with students | Once in a academic year |
| 11 | Feedback from students on infrastructure and facilities | Once in a academic year |
| 12 | Course End Survey | At the end of semester |
| 13 | Exit survey from students and faculty | Once in a academic year |
| 14 | Any other mode of interaction with stakeholders / suggestions | Throughout year |

1. Induction program for all classes

The Induction program of two weeks is introduced by AICTE to the first year students. The basic idea is to familiarize the students with the college and engineering practices and activities. The first year is common to all the students. Students have little idea about scope and opportunities that they have in college, hence each HOD briefs the students about the department's vision, mission, PSOs. Information regarding IE chapter, NSS, e-Baja was shared. Students were briefed about various evaluations at college and at university level.

| S.N. | Suggestions Received | Action Taken |
|------|---|--|
| 1 | Students felt that commuting from nearby places takes a lot of time and hence suggested that hostel is needed in the campus | Information with respect to accommodation in campus was provided with some contact numbers after discussion with senior students. The in campus hostel facility availability was discussed with Principal sir. |
| 2 | Students were concerned about the career opportunities in electrical sector and asked for more information. | Through expert talks, the industry experts have highlighted the scope and job opportunities for electrical students. Some alumni success stories were shared for motivation. Alumni talks were organized to motivate the students to become entrepreneurs. |
| 3 | Students complained about attendance percentage while participating in extracurricular activities | The students participating in extracurricular activities like NSS, sports, e-Baja cultural were made aware about the importance of attending classes in satisfactory level to achieve better CGPA. Guidance with respect to time management |

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| | | was given. |
| 4 | BE students were concerned about the core industries for placement | More core industries were approached through alumni and OFOI contacts |

02. Program Assessment and Quality Improvement Committee Meetings

PAQIC committee is formed at the department level with the objective of imparting quality technical education to the students. Meeting of the committee is held at the start of semester for planning different activities and in the mid semester to monitor the progress of the activities as per the plan and make changes if needed.

03. Department Advisory Board meeting

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | It was suggested to formulate a common template for conduction of test, assignment. | Test, Assignment formats were made. |
| 2 | Rubrics was suggested for monitoring the projects of the BE students | Rubrics was prepared |
| 3 | It was suggested that faculty should contact industry (OFOI) personnel for TE internship | Faculty members contacted industry personnel |
| 4 | Coordination for industrial visits was suggested | A proper plan was prepared |

The function of this committee is to monitor the overall progress of the department with respect of activities planned, executed, students results, participation in different activities and placements

| S.N. | Suggestions received | Action Taken |
|------|---|--|
| 1 | DAB meeting was organized on 3 rd December 2022. The members suggested to work upon the following points. 1. Effective utilization of internship | The students were made aware that internship gives them an opportunity to experience industrial culture and learn good practices. Project on e |

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| | period 2. Use of e tempo 3. Quality of students projects | Tempo is decided in this year and project schedules will be strictly monitored for quality improvement. |
| 2 | The committee members expressed concern over the SE, TE results | The HOD briefed the committee members about the extra efforts faculty had taken for syllabus completion and students guidance. For mathematical subjects, extra problems were solved from students. For design subjects, soft wares were used to explain certain concepts. |
| 3 | The members suggested use of contemporary soft wares to understand the concepts better | E-TAP order was placed to familiarize students with load flow studies |


04. Department meetings with faculty

Every week faculty meetings are held and timely suggestions are received.

| S.N. | Suggestions received | Action Taken |
|------|---|--|
| 1 | Faculty members suggested number of laboratory in charges to be increased for safety and better laboratory management | Additional Lab in charges were appointed |
| 2 | Portable Cameras, headphones were requested by faculty | Camera and head phone were provided |
| 3 | All the classrooms should have PCs. | PCs were provided to all the classrooms. Lecture capture facility is installed in one classroom. |

05. Parent meet

Details of activity conducted (in brief)


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 Department of Electrical Engineering
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| S.N. | Suggestions received | Action Taken |
|------|---|--|
| 1 | Parents were called and briefed about their ward's attendance and progress. | Parents were briefed about mentoring system and asked to |

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| | | be in touch with the mentor for detailed progress of the ward. |
| 2 | Parents insisted on providing soft skill training | Soft skill training planning was done and an agency was approached |

06. Industry meet

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | The industry experts visited the department for guiding the students by conducting guest lectures. They suggested practical exposure to the students | The HOD briefed about the TE internship initiatives and the benefits of prior exposure to industrial culture |
| 2 | State of the art facilities be shown to the students | Visits to relevant industries was done |

07. Alumni meet

An alumni meeting was conducted on 25th February 2023.

| S.N. | Suggestions received | Action Taken |
|------|---|---|
| 1 | The alumni suggested the students to take active part in college curricular activities for self and personality development | Students were motivated to participate in eBaja, NSS, Garudashwa and cultural activities at college level |
| 2 | The alumni students assured to provide help regarding internship. | Students will be sent to such companies founded by our Alumni. |

08. Feedback of stakeholders on curriculum

A) Students

| S.N. | Suggestions received | Action Taken |
|------|---|--|
| 1 | Students suggested to procure new softwares for better understanding of | E TAP software order is placed in purchase |

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| | load flow studies | |
| 2 | Modern trends in industrial practices be communicated | Expert sessions and industrial visits are planned |
| 3 | Students suggested for interaction with entrepreneurs | Expert entrepreneur sessions were organized. |

B) Faculty

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | Faculty members have given suggestions while framing the SE,TE,BE 2019 syllabus wrt their subjects | While finalizing the syllabus in the meeting, the faculty suggestions were incorporated. |
| 2 | The faculty suggested to increase industry involvement in curriculum delivery | More industry experts were called for course content delivery. |

C) Employee

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | Employees suggested to include software AutoCAD in Electrical design subject. Employers suggested GSM, IOT introduction. | AutoCAD is included for drawing sheets in the DEM subject. GSM, IOT is included in the syllabus of FMA |
| 2 | Soft skills of the students' need improvement | Soft skills' training is being imparted with appropriate syllabus coverage for SE,TE and BE. Guest lecture was arranged on Professional values and ethics. |

D) Alumni

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | Alumni wished to know the department's development. They promised to help in internship and placement. | Newsletter is shared to alumni. Students are being sent to their companies. |
| 2 | Alumni were ready for interaction and guidance to students | More interactive sessions were planned and conducted. |

E) Parents

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | Parents wanted students to have more practical knowledge | Expert sessions, industrial visits, internships were planned |
| 2 | Soft skill training be given | Soft skill sessions were planned |
| 3 | Hostel facility must be in campus | This suggestion was shared with higher authorities |

09. Student – faculty feedback

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| 1 | Students' feedback of faculty is taken twice in a semester. The faculty members are briefed about their strengths and weaknesses. This feedback is taken online on ERP system. | Feedback is shared with faculty and those having poor feedback are asked to improve upon it. |
|---|--|--|

10. Meeting / interaction of HoD / Principal with students

| S.N. | Suggestions received | Action Taken |
|------|--|---|
| 1 | HOD regularly interacts with students to know their difficulties. Students wanted some guidance on future opportunities in core sector | An alumni session was planned to elaborate on it. Prominent persons from industry were invited to deliver expert session. |
| 2 | Students requested to provide guidance for GATE exam | Faculty members addressed students queries in their respective subjects. |

11. Feedback from students on infrastructure and facilities

Every year student' feedback is taken on central facilities.

| S.N. | Suggestions received | Action Taken |
|------|--|--|
| 1 | Students expressed concern over the canteen facility. The canteen rates are required to be subsidized Students suggested that the lunch break be extended to 45 min from current 30 min. | Suggestions were passed on to higher authorities |

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| 2 | Students suggested hostel facility to be provided in campus | Suggestions were passed on to higher authorities |
|---|---|--|

12. Course End Survey

| S.N. | Suggestions received | Action Taken |
|------|---|---|
| 1 | Every semester each faculty conducts course end survey for his/her subject. Students give valuable feedback for the course conducted and some points are suggested for further improvisation. | Faculty members go through the survey meticulously and work upon the suggestions given to improve their teaching methodology and course delivery. |

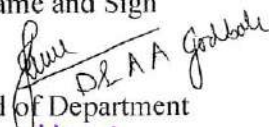
13. Exit survey from students and faculty

Exit surveys are taken from the passing out batch. They are asked to share their learning experience in the department and give suggestions. The students gave suggestions on common facilities like canteen, library, hostel, computer center etc. The students are shared with a survey questionnaire, which is meant for checking how far the students have progressed in achievement of POs and PSOs. A review of activities is done based on the responses received in the PAQIC meeting.


Name and Sign

Academic Coordinator /
PAQIC Coordinator

Name and Sign


Head of Department

Department of Electrical Engineering
AISSMS College of Engineering, Pune