AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE, New Delhi, Recognized by Government 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 | NBA - 6 UG Programmes

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

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CRITERION I

Vision, Mission and Program Educational Objectives

CRITERION I	Vision, Mission and Program Educational Objectives	60

1.1	State the Vision and Mission of the Department and Institute (05)	05

A. Availability of statement of the department

❖ **Vision of Institute:**

- Service to society through quality education

❖ **Mission of Institute:**

- Generation of national wealth through academics 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 the highest preferred engineering college in the eyes of stake holders

Vision and Mission of Department

❖ **Vision of Department**

Society Growth and Welfare through Competent Electronics and telecommunication Engineering Graduates

❖ **Mission of Department**

- To facilitate E & TC graduates with sight of innovation.
- To provide stimulating learning environment with modern tools & technologies.
- To produce dynamic graduates with ethics and moral values.
- To impart quality education in the field of E & TC engineering to solve societal and industrial problems

The Vision and Mission statements of the Institute are set with broad scope. The Vision and Mission of the Department form a part of it. The Vision statement of Department perfectly aligns with Vision of the Institute. The Mission of the Department streamlines with broad scope of the Mission of the Institute.

B. Appropriateness/Relevance of the Statements

❖ **Vision of Institute:**

➢ The vision statement of institute is appropriate because it emphasizes the primary purpose of the institution, which is to provide education that benefits society.

❖ **Vision of Department:**

➢ The Vision of Department: "Society Growth and Welfare through Competent Electronics and Telecommunication Engineering Graduates" is appropriate for Electronics and Telecommunication Engineering department within an educational institution, which is to contribute to societal growth and welfare through its graduates.

❖ **Mission of Institute:**

➢ The mission of the Institute “Generation of national wealth through academics and research" is appropriate. Which highlights the importance of contributing to the Nation's wealth and development through academic and research.

➢ The mission of the institute "Imparting quality technical education at the cost affordable to all strata of society" is appropriate for providing affordable quality education to all the sector of the society.

➢ The mission of the institute “Enhancing the quality of life through sustainable development" is appropriate and aligns with the broader societal goals of promoting sustainable development and improving the quality of life.

➢ The mission of the institute "Carrying out high-quality intellectual work" appropriate by emphasizing intellectual and excellence work among the graduate.

➢ The mission of the institute "Achieving the distinction of the highest preferred engineering college in the eyes of stakeholders" is appropriate as the mission highlights the institution's aspiration for excellence and recognition in the eye of stakeholder which is important requirement to became reputed institute.

❖ **Mission of Department:**

➢ The mission of the Department is "To facilitate E & TC graduates with a sight of innovation." is appropriate by placing a significant emphasis on nurturing innovation among its graduates.

➢ The mission of the department "To provide a stimulating learning environment with modern tools & technologies." is appropriate which, emphasizing the need for up-to-date technology and a helping learning environment in the department.

- The mission of the institute “To produce dynamic graduates with ethics and moral values." is appropriate, which emphasizing not only technical skills but also ethics and values which will producing all rounded engineering graduate
- The mission of the department “To impart quality education in the field of E & TC engineering to solve societal and industrial problems." is appropriate focusing on the practical application of education to solve industry and societal problems.

Overall, both the institute's and the department's mission statement is appropriate and relevant as they address key aspects of education, research, societal impact, and ethical values that are play vital role.

C. Consistency of the Vision and Mission statements of department with that of Institute

Following explanation will provide valuable information how Vision and Mission of Department are amalgamated with Vision and Mission of the Institute. The Department Vision and Mission thoroughly blend with that of the Institute.

Considering today’s era, it is the responsibility of our institute to generate technically sound engineers with social awareness. An engineer must be technically sound, a good communicator and a sensible human being. Engineers must be industry ready.

- **Consistency of the vision statement:**

The institute and department visions committed to serving to society. The institute vision focuses on quality education as a means of service, the department vision specifies the service will be achieved by producing capable graduates in the field of electronics and telecommunication engineering. Therefore, institute and department vision clearly aligned.

- **Consistency of the mission statement**:

The department's mission statement and institute mission statement are consistent considering the following major aspect:

Institute and department are focusing on importance of quality education and research, commitment to societal development and problem-solving.

The department's mission also focusses on innovation, modern tools, ethics, and moral values, which will be enhancing the quality of life and intellectual work.

Institute and department mission statement committed to quality education, research, societal development, and ethical values among the electronics and telecommunication engineering graduate.

Table 1.1: Showing similar words in the institute and department statement

Institute	Department
Vision Statement	
Service to **Society** through Quality Education	**Society** Growth and Welfare through Competent Electronics and Telecommunication Engineering Graduates
Mission Statement	
Generation of national wealth through education and **research**.	To facilitate E & TC graduates with sight of **innovation**.
Imparting **quality technical education** at the cost affordable to all strata of Society.	To impart **quality education** in the field of E & TC engineering to solve societal and industrial problems
Enhancing the quality of life through S**ustainable development.**	To provide **stimulating learning** environment with modern tools & technologies.
Carrying out **high quality intellectual** work.	To impart **quality education** in the field of E & TC engineering to solve societal and industrial problems
Achieving the distinction of the highest preferred engineering college in the eyes of stake holders	To produce **dynamic graduates** with ethics and moral values

1.2	State the Program Educational Objectives (PEOs)	05

The Program Educational Objectives (PEO) are as follows:

- To build strong fundamental knowledge among graduates required to pursue their higher education and continue professional development
- To enable graduates to identify, analyze and solve Electronics Engineering problems by applying basic principles and modern techniques.
- To enable graduates to innovate, design and develop hardware & software components and groom their ability to succeed in multidisciplinary & diverse field.
- To inculcate in graduate's professional attitude, effective communicational skills, team work skills for becoming a responsible, cultured human being.

Justification/motive of the PEO Statements

- Promotion of higher education, research and development and other innovative efforts in related subjects will build strong fundamental knowledge among graduates required to pursue their higher education and professional development
- The knowledge of contemporary science, engineering related subjects and domain skills imparted in the program will enable graduates to identify, analyze and solve Electronics Engineering problems.
- Projects and Competitions will enable students to innovate, design and develop hardware and software components and groom their ability to succeed in multidisciplinary and diverse field
- The education will enable graduates to become responsible, cultured human being in industry or higher education by improving technical, professional and communication skills.

1.3	Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders	10

A. Adequacy in respect of publication and dissemination

The Vision, mission and PEOs are published and disseminated for internal stakeholders (management, governing council members, faculty members and students) and external stakeholders (parents, employers, industry persons, professional bodies and alumni) at various locations through various modes and occasions.

Table 1.3.1: List of Internal and External Stakeholder

Internal Stakeholder	External Stakeholder
Faculty	Alumni
Students	Parents
IQAC	Employer
Institute Academic Coordinator	Industry Experts
Principal Office	Guests
ILC Members	Examiners
Other central committee incharge	Faculties from other institute
CITP, Training and Placement	DAB Members
	Professional Bodies

Table 1.3.2: Publishing Mode of Vision Mission and PEOs

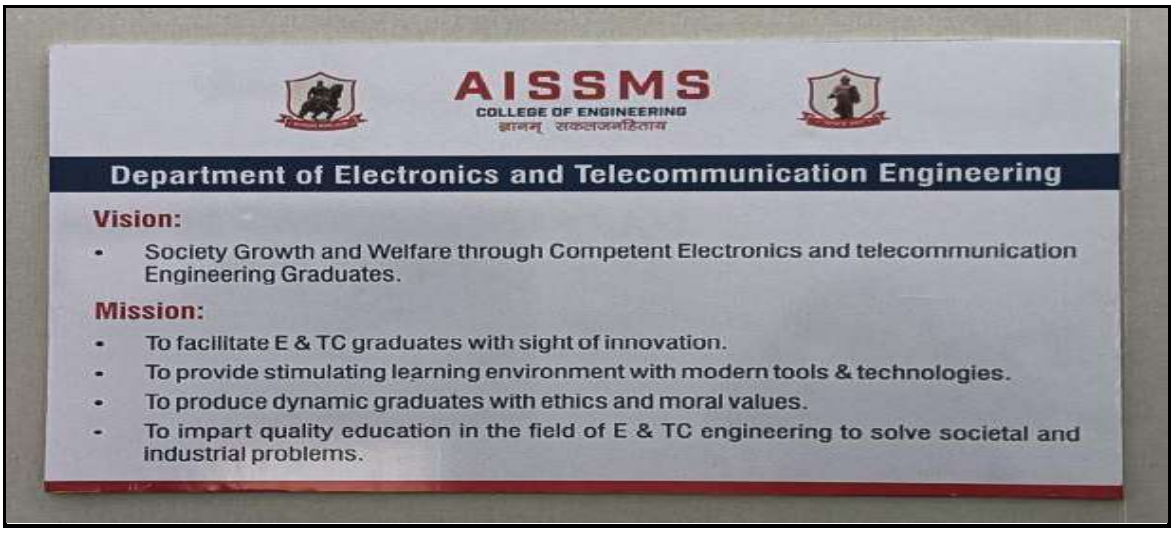
	Level	SI	Medium of Publishing	Stake holders	
				Internal	External
Vision Mission PEOs	**Institute**	1	The Institute website www.aissmscoe.com (https://www.aissmscoe.com)	Y	Y
		2	Academic Calendar	Y	Y
		3	Admission Brochure	Y	Y
		4	Administrative Office	Y	Y
		5	Administrative Notice Board	Y	Y
		6	Conference Room , Seminar Hall, CITP	Y	Y
		7	Annual Magazine	Y	Y
		8	Library	Y	Y
	Department	1	HOD Office ,Seminar Hall.	Y	Y
		2	Institute Website – Department	Y	Y

		3	Department Notice Board	Y	Y
		4	Library Manuals	Y	Y
		5	Course File	Y	Y
		6	News Letter	Y	Y
		7	FDP/STTP Boucher	Y	Y

B. Process of Dissemination among stakeholder

Table 1.3.3: Dissemination of Vision Mission and PEOs

	Level	SI	Method of Publishing	Stake holders	
				Internal	External
VISION MISSION PEOs	**Institute and Department**	1	Brochures' and Flyers of Programs	Y	Y
		2	Invitation Cards	Y	Y
		3	Conferences Organized	Y	Y
		4	College Programs	Y	Y
		5	Parents' Teachers Meeting	Y	Y
		6	Placement Drives	Y	Y
		7	Alumni Meeting	Y	Y
		8	Student's Chapter Activities	Y	Y
		9	Association Activities	Y	Y
		10	Industry Visit by Faculty Members	Y	Y
		11	e-mail correspondence	Y	Y



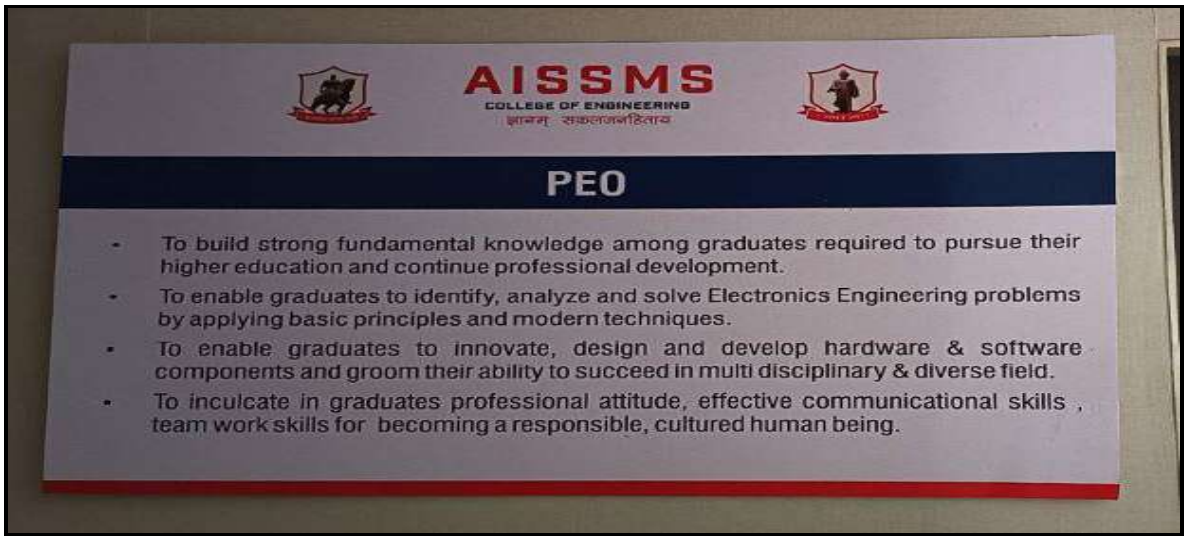


Figure 1.3.1: Vision Mission, PEO and PSO in HOD Cabin

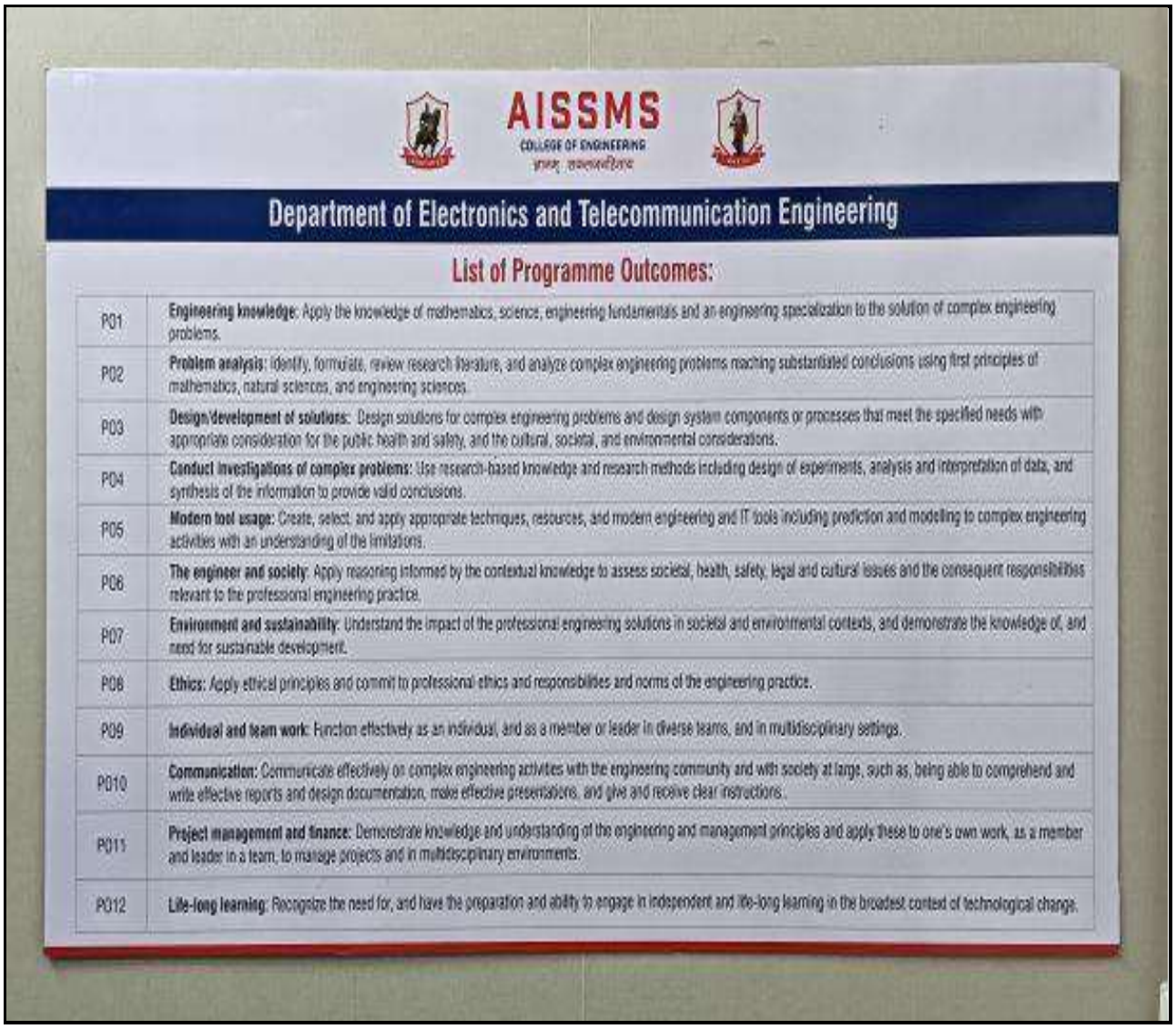


Figure 1.3.2: Program Outcomes (PO) in HOD Cabin

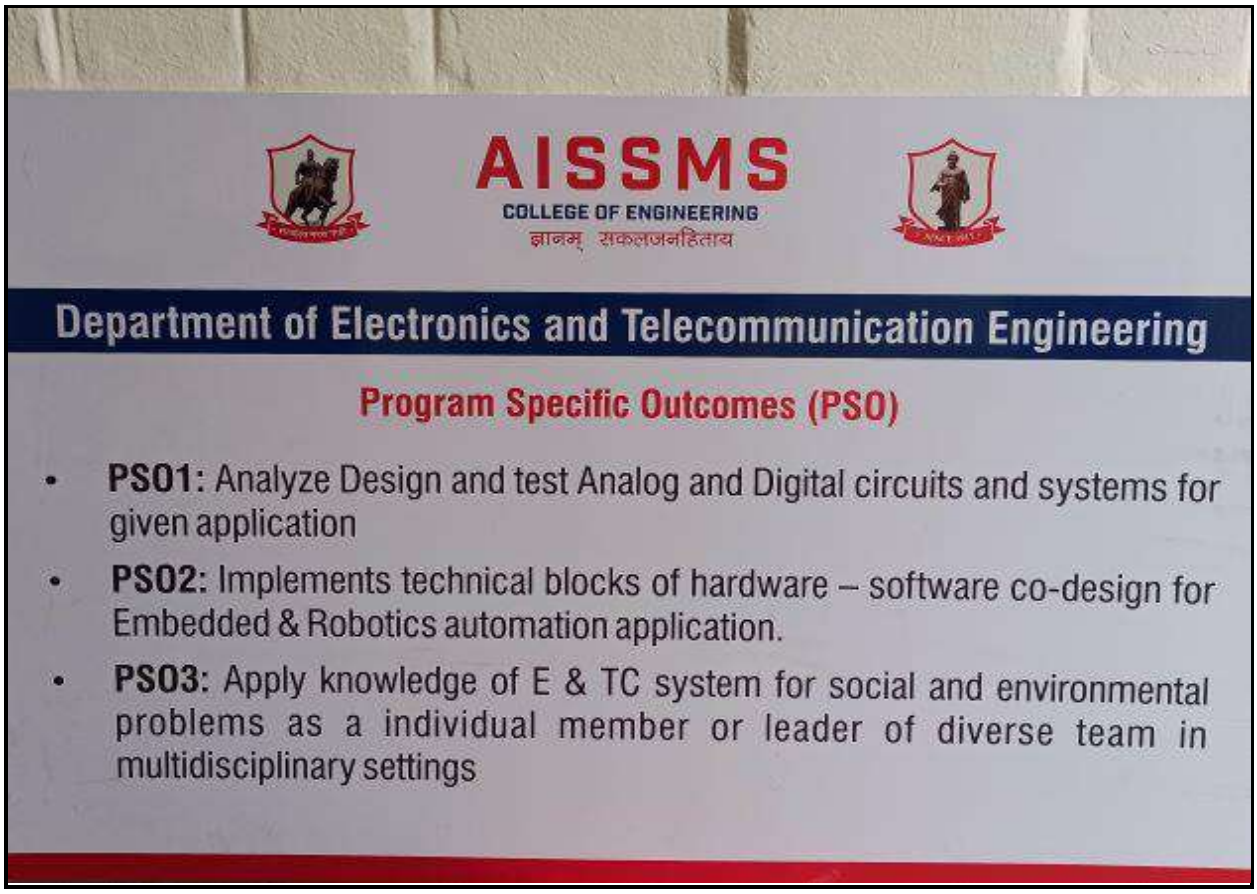


Figure 1.3.3: PSO board on Corridors

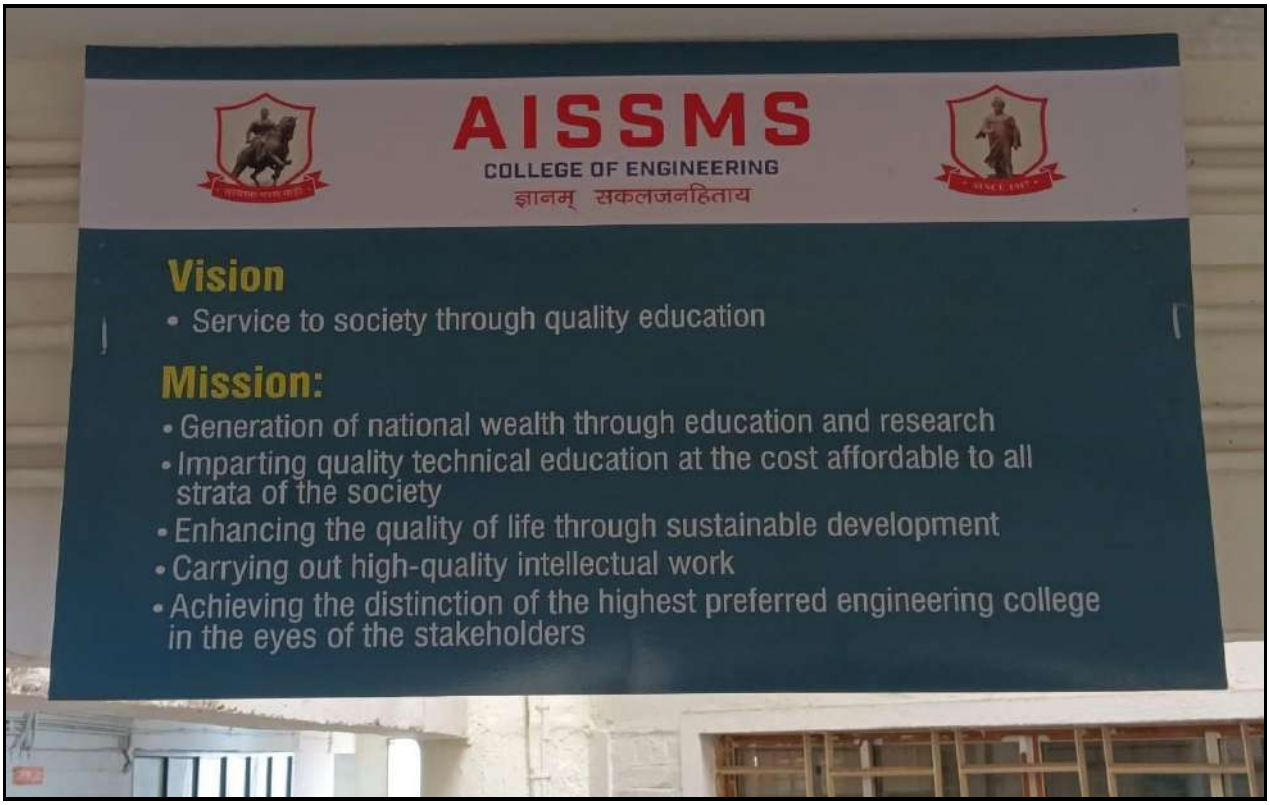


Figure 1.3.4: Institute Vision Mission board on Corridors

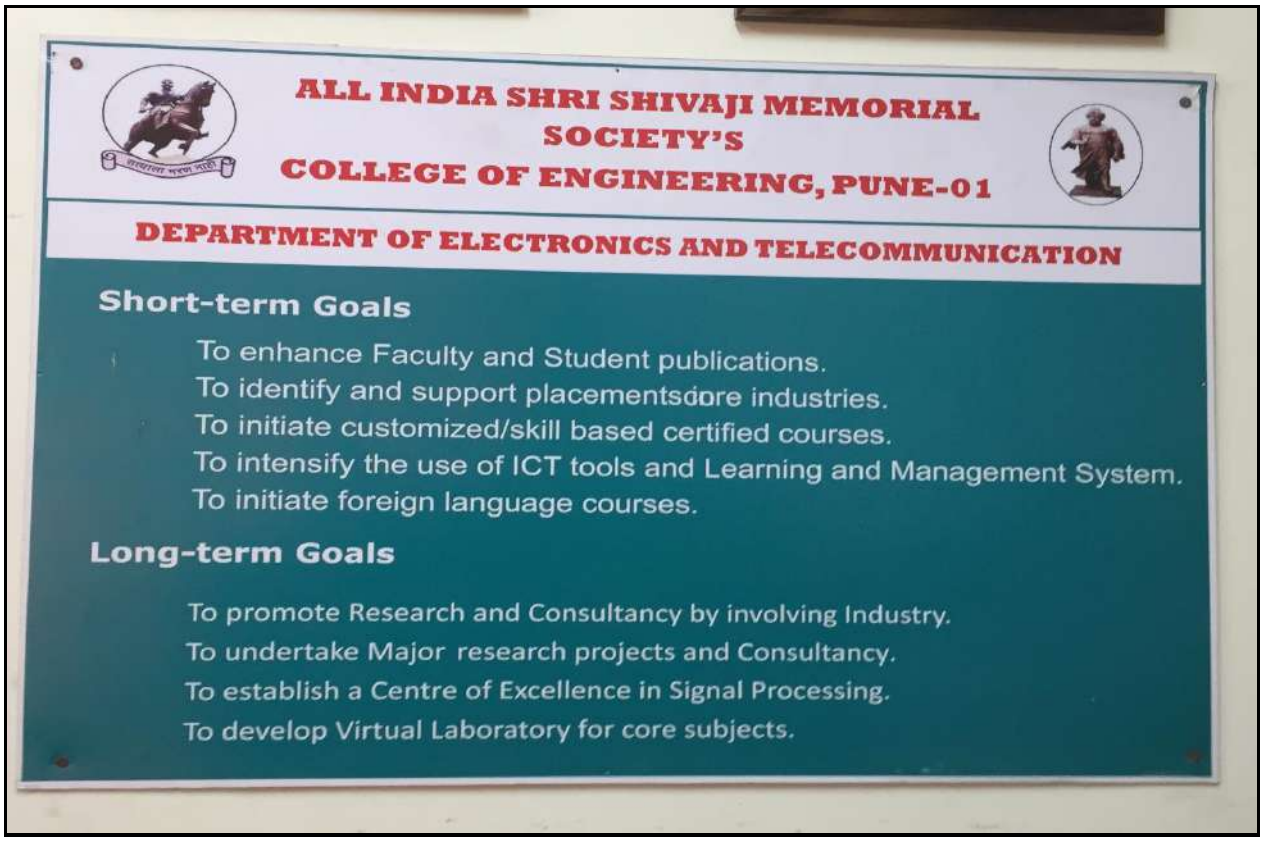


Figure 1.3.5: Short term and Long term goal board in HOD cabin

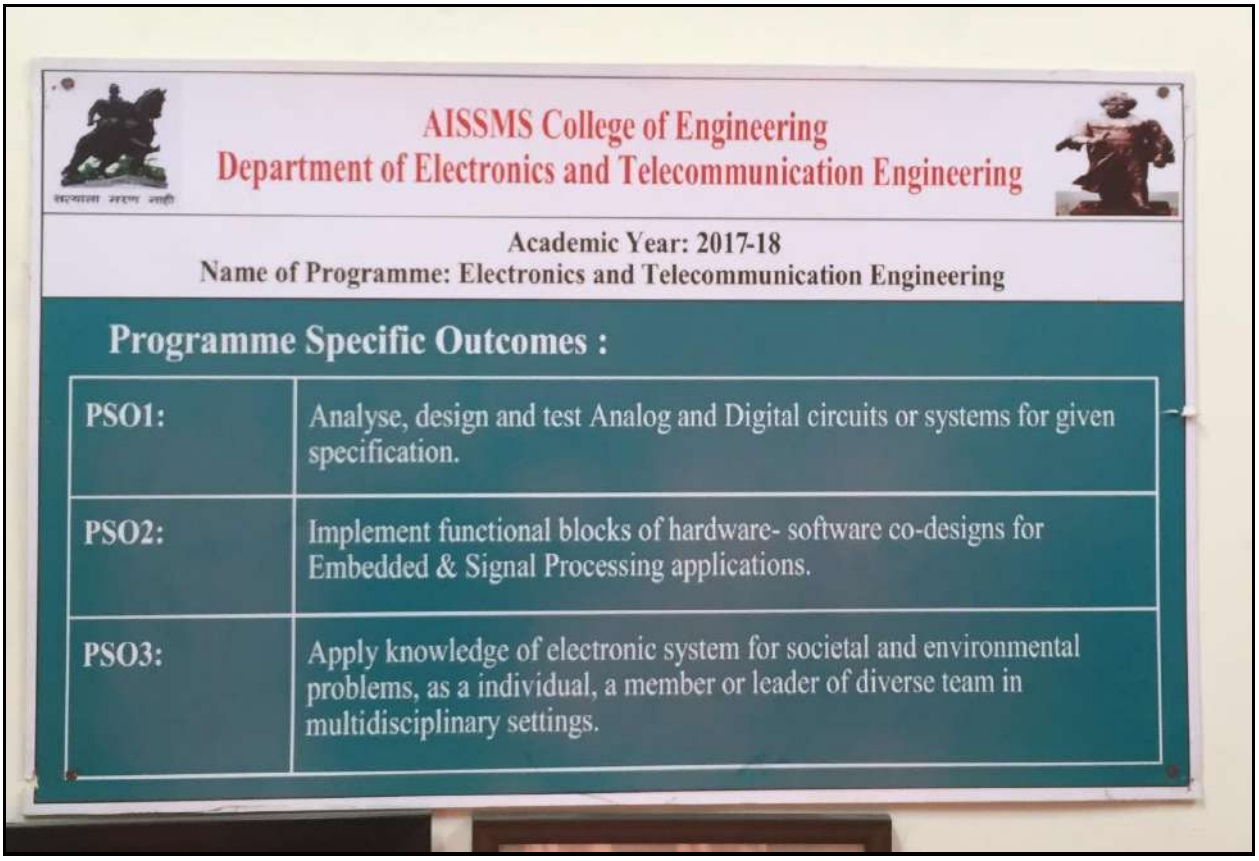


Figure1.3. 6: Program Specific Outcomes board in laboratory

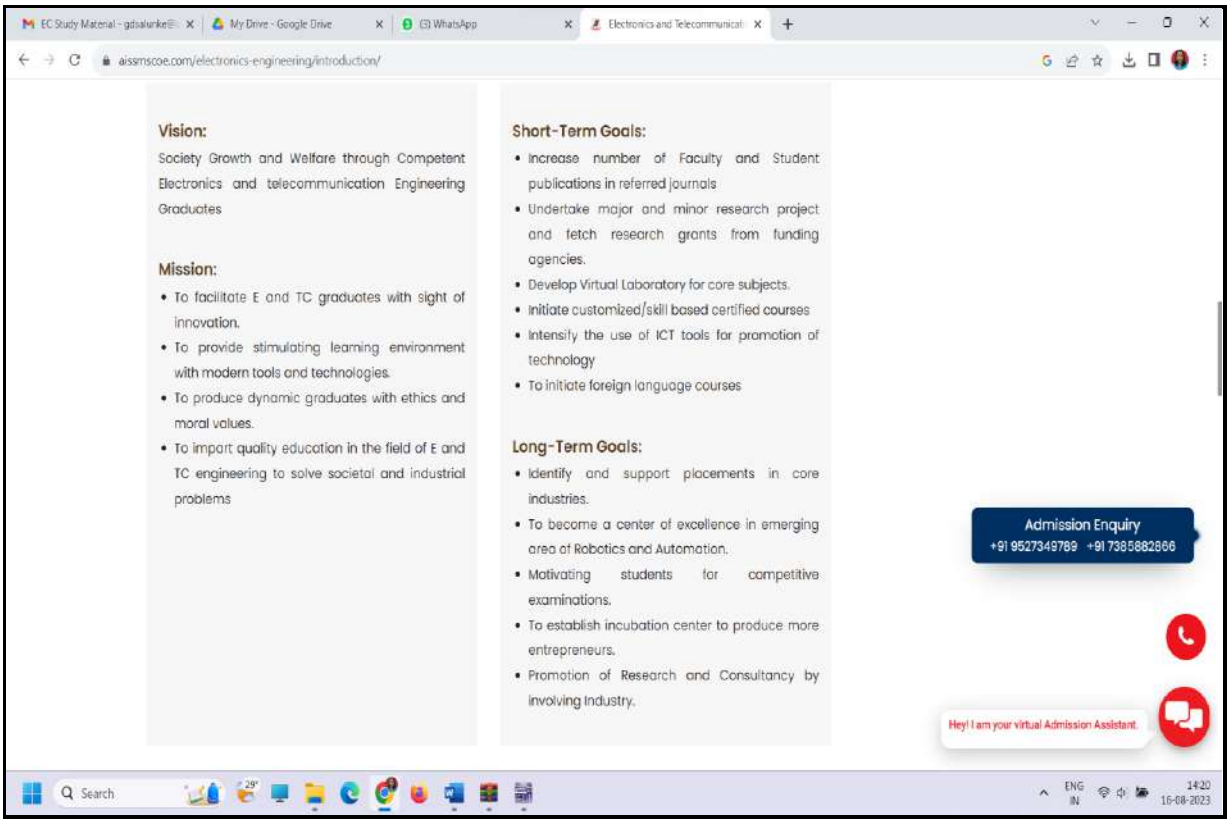


Figure1.3.7: Department Vision Mission on College Website

Figure1.3.8: Vision Mission Institute and Department on brochure

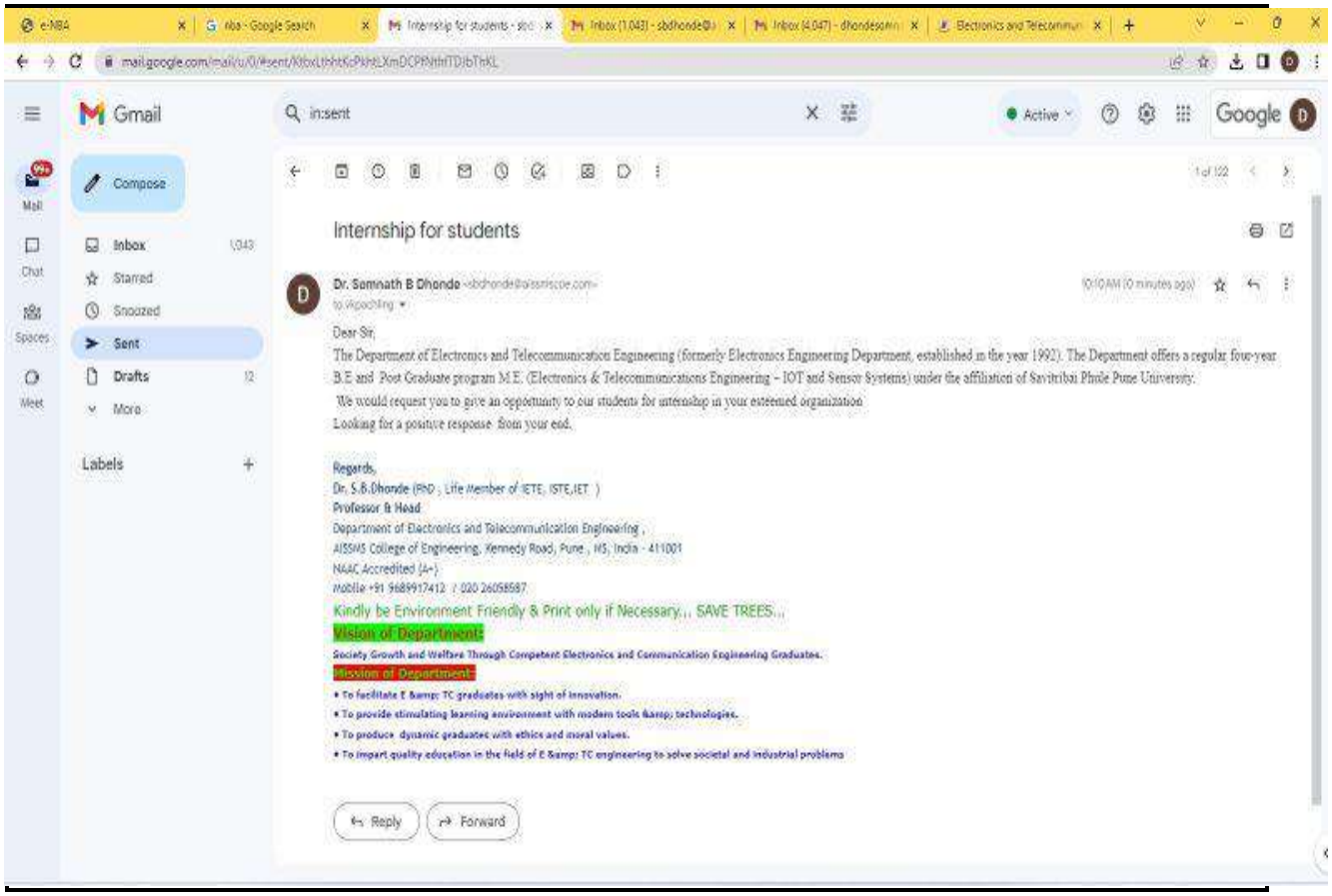


Figure 1.3.9: Department Vision Mission in E-Mail Signature

1.4	State the process for defining the Vision and Mission of the Department, and PEOs of the program	25

A. Description of process involved in defining the Vision, Mission and PSO of the Department:

Gathering input from department faculties, the department faculties give valuable insights and perspectives on the departments strengths, weaknesses, opportunities, and challenges

- ► Take the input from internal and external stakeholder
- ► Preparation of rough draft of Vision, Mission and PSO as per requirement and suggestions by industry, internal and external stakeholders and review and analysis is done
- ► Discussion in PAQIC to finalize the vision mission of department
- ► Discussion in DAB meeting and modified version is obtained
- ► Modified version sent to IQAC further suggestion and modification.
- ► Final vision, mission and PSO sent to management for approval and freeze and publish.

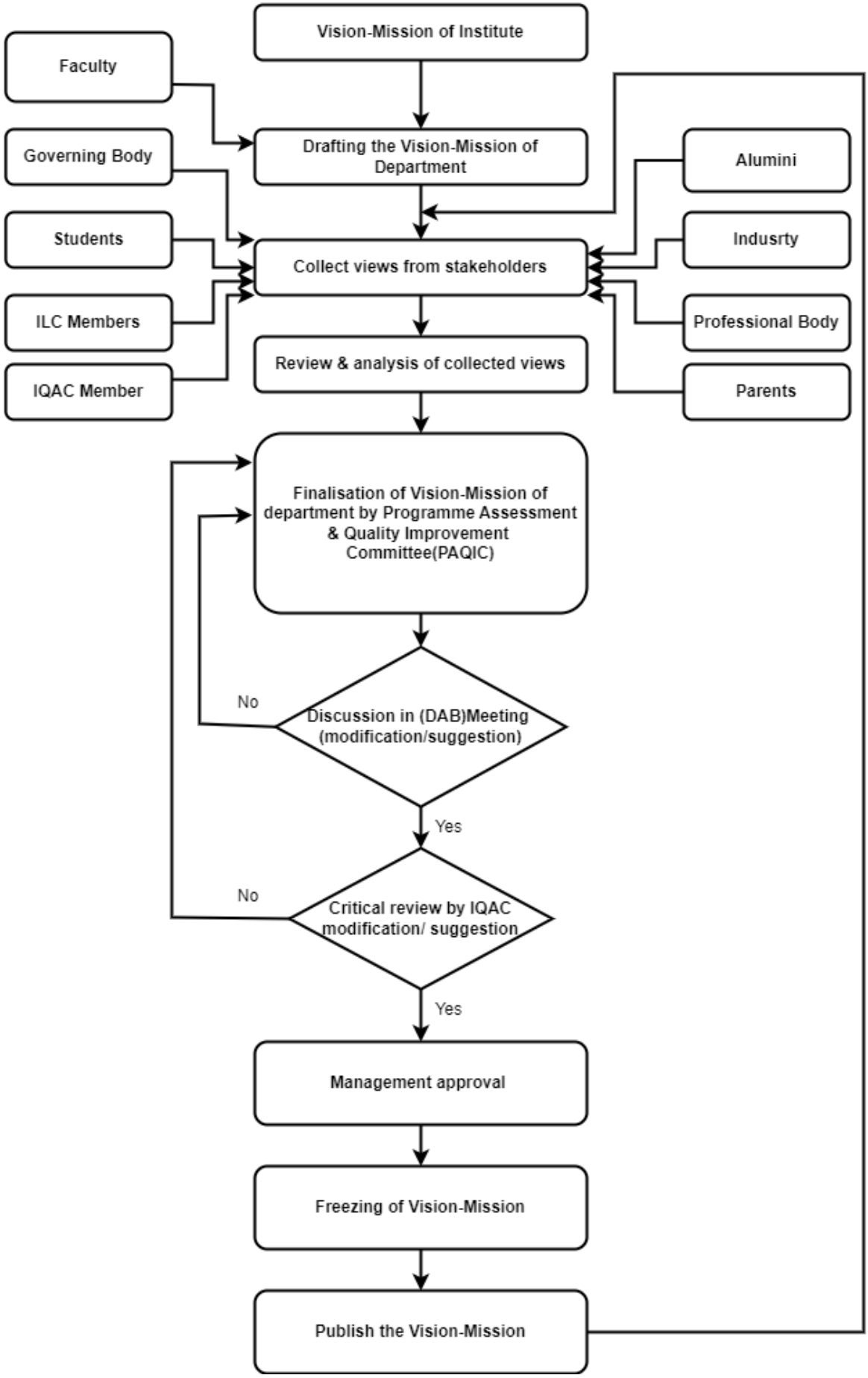


Figure 1.4.1: Process of Defining the Vision, Mission and PSO of the Department

B. Description of process involved in defining the PEOs of the program

Detail steps to define the PEOs of department is given in flow chart

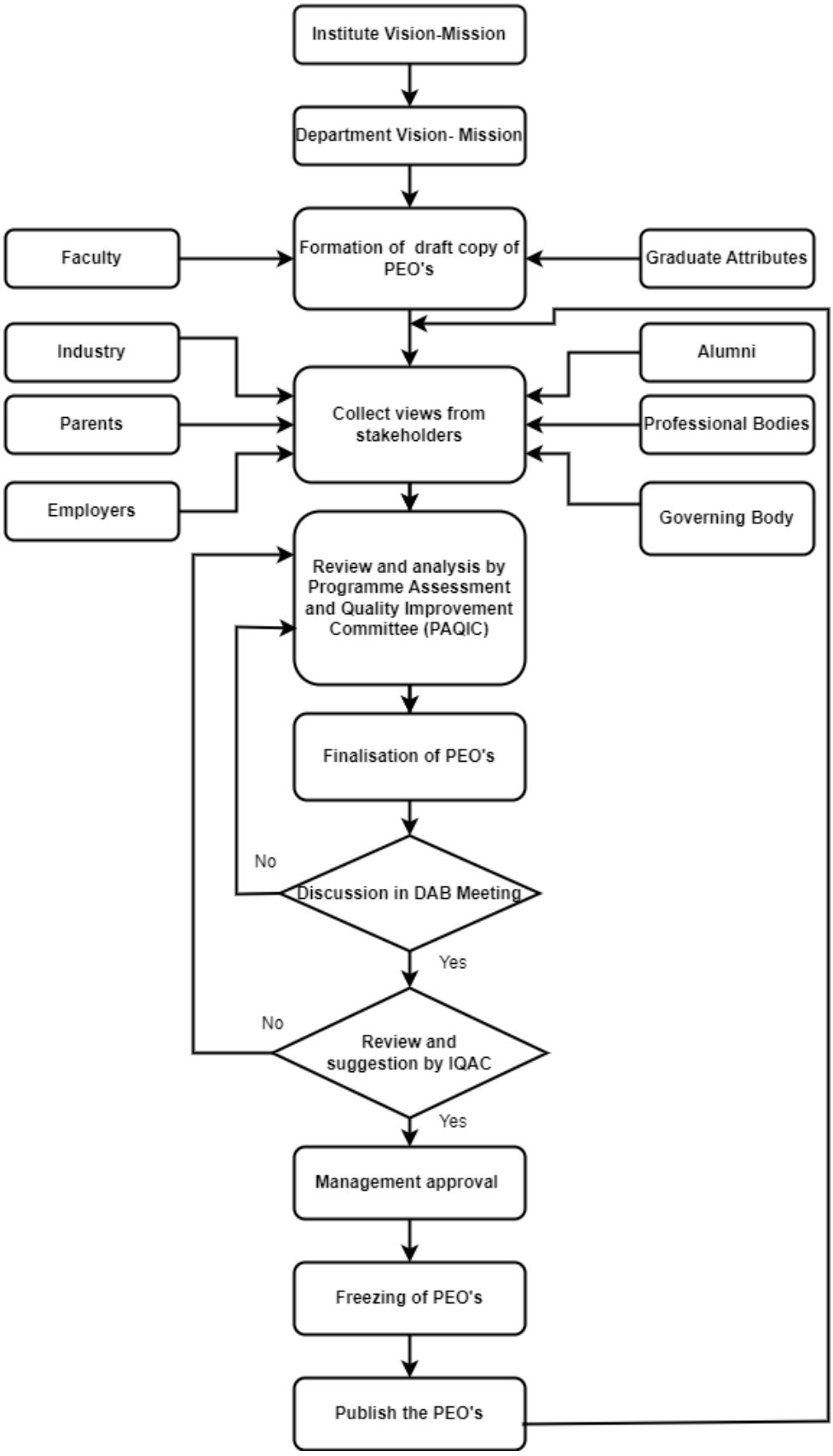


Figure 1.4.2: Process of Defining the PEOs of the Department

❖ The Framework of defining PEOs:

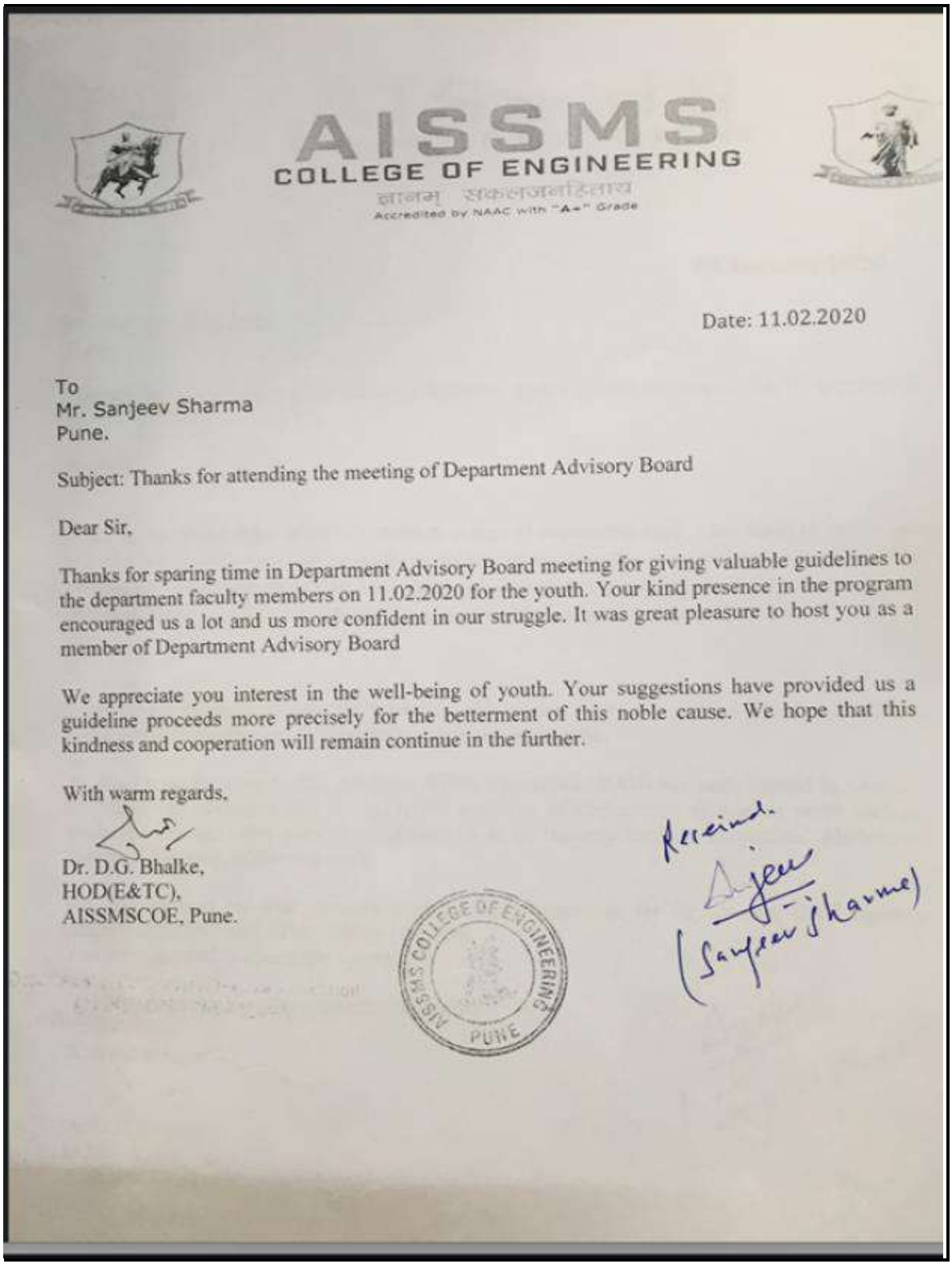
- The Program Educational Objectives (PEOs) are the broad statements of the objectives for which the program is to be run. These objectives are established to help in fulfilling the Mission of the Department, and to the students graduating from the program to lead a fruitful and meaningful life in the society by being useful in its progressive development. The objectives are in consonance, to the extent possible, with the current scenario in the field of E&TC engineering and with the needs of the relevant Industry. The Industry needs are gauged through the feedback, received during the interaction with industry persons and even in the Center for Information Training and Placement (CITP) when companies come for campus placement.

- Moreover, the Alumni who have gone to Industry or to Institutes of high reputation are able to reflect whether the objectives are adequate.

- The inputs received from various sources are taken in to the consideration during the brain storming session in the Program Assessment and Quality Improvement Committee meeting and then the final PEO are finalized, published and disseminated.

- The needs of the Nation and Society are identified through the stakeholders' interactions, media and gauging futuristic technological advancement.

- Taking the above into consideration, the PEOs are established by Program Assessment and Quality Improvement Committee for final approval.



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Date: 11.02.2020

To
Mr. Sanjeev Sharma
Pune.

Subject: Thanks for attending the meeting of Department Advisory Board

Dear Sir,

Thanks for sparing time in Department Advisory Board meeting for giving valuable guidelines to the department faculty members on 11.02.2020 for the youth. Your kind presence in the program encouraged us a lot and us more confident in our struggle. It was great pleasure to host you as a member of Department Advisory Board

We appreciate you interest in the well-being of youth. Your suggestions have provided us a guideline proceeds more precisely for the betterment of this noble cause. We hope that this kindness and cooperation will remain continue in the further.

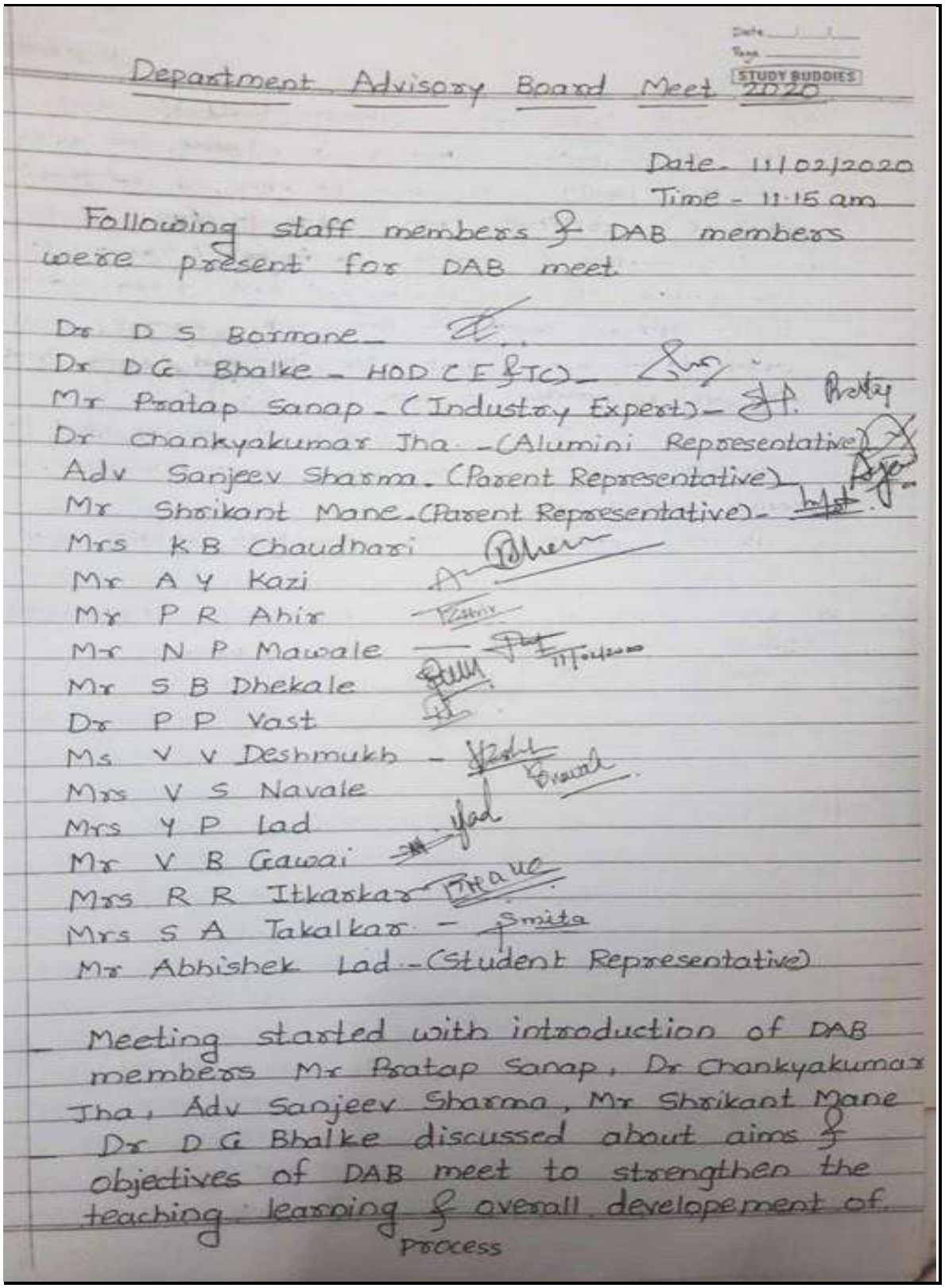
With warm regards,

Dr. D.G. Bhalke,
HOD(E&TC),
AISSMSCOE, Pune.

AISSMS COLLEGE OF ENGINEERING PUNE

Received.
(Sanjeev Sharma)

Figure 1.4.3: Thanks Latter to Department Advisory Board committee member for attended meeting



Department Advisory Board Meet 2020

Date - 11/02/2020
Time - 11:15 am

Following staff members & DAB members were present for DAB meet

Dr D S Barmane
Dr D G Bhalke - HOD (E&TC)
Mr Pratap Sanap - (Industry Expert)
Dr Chankyakumar Jha - (Alumini Representative)
Adv Sanjeev Sharma - (Parent Representative)
Mr Shrikant Mane - (Parent Representative)
Mrs K B Chaudhari
Mr A Y Kazi
Mr P R Abir
Mr N P Mawale
Mr S B Dhekale
Dr P P Vast
Ms V V Deshmukh
Mrs V S Navale
Mrs Y P Lad
Mr V B Gawai
Mrs R R Itkarkar
Mrs S A Takalkar - Smita
Mr Abhishek Lad - (Student Representative)

Meeting started with introduction of DAB members Mr Pratap Sanap, Dr Chankyakumar Jha, Adv Sanjeev Sharma, Mr Shrikant Mane Dr D G Bhalke discussed about aims & objectives of DAB meet to strengthen the teaching learning & overall developement of process

Figure 1.4.4: Department Advisory Board Minutes of Meeting

Figure 1.4.5: Photo of DAB Meeting

1.5	Establish consistency of PEOs with Mission of the Department	15

A. Preparation of a matrix of PEOs and elements of Mission statement (5)

In order to bring our dream Mission into reality, the department actively identifies gaps in the university curriculum and implements a range of initiatives to bridge these gaps. These efforts are geared towards fostering robust fundamental knowledge, enhancing problem-solving abilities, promoting innovation, and facilitating multidisciplinary learning. The overarching goal is to ensure that our programs are in harmony with the Program Educational Objectives (PEOs) and effectively respond to the dynamic demands of the industry and evolving technology. The department is consistently taking following initiative,

Faculty Development: Encourage faculty members to stay updated with the latest developments in Electronics & Telecommunication engineering through workshops, seminars, and conferences. Support faculty members in integrating modern tools and technologies into their teaching methodologies.

Student Assessment and Feedback: Gather regular feedback from students, alumni, and industry partners to evaluate the effectiveness of the curriculum and teaching pedagogies

Extracurricular Activities: Promote student involvement in extracurricular activities, such as technical clubs, student's chapters, project exhibition, technical competitions, and research projects, to foster innovation, teamwork, team leader, communication skill, ethical values and hands-on experience among the graduate

Career Guidance and Counselling: Offer career counselling services to help students understand their options for higher education and professional development. Provide guidance on building professional attitudes, effective communication, and teamwork skills.

Collaboration with Industry:

Establish partnerships and collaborations with industry leaders to ensure the industry needs and trends. One faculty is connected one industry to facilitate internships, industry-sponsored projects for students and knowledge sharing

Professional Development for Students:

Organize workshops, industry expert talk and seminars on professional development, effective communication, and teamwork. Encourage students to participate in leadership and community

service activities.

Cultural and Social Activities:

Promote cultural and social activities that encourage students to become responsible and cultured human beings through annual social gathering, NSS etc.

Faculty-Student Interaction:

Build strong faculty-student relationships through mentoring and open communication to guide students in their academic and personal development.

❖ **The Program Educational Objectives are as follows. (PEO)**

- To build strong fundamental knowledge among graduates required to pursue their higher education and continue professional development in Electronics & Telecommunication field.
- To enable graduates to identify, analyze and solve Electronics Engineering problems by applying basic principles and modern techniques.
- To enable graduates to innovate, design and develop hardware & software components and groom their ability to succeed in multidisciplinary & diverse field.
- To inculcate in graduate's professional attitude, effective communicational skills, team work skills for becoming a responsible, cultured human being.

  - M1: To facilitate E & TC graduates with sight of innovation.
  - M2: To provide stimulating learning environment with modern tools & technologies.
  - M3: To produce dynamic graduates with ethics and moral values.
  - M4: To impart quality education in the field of E & TC engineering to solve societal and industrial problems.

Table 1.5.1: PEOs and Mission statement mapping matrix

Program Educational Objectives (PEOs)	Mission of the Department			
	M1	M2	M3	M4
To build strong fundamental knowledge among graduates required to pursue their higher education and continue professional development in Electronics & Telecommunication field.	3	3	2	3
To enable graduates to identify, analyze and solve Electronics Engineering problems by applying basic principles and modern techniques.	3	3	2	3
To enable graduates to innovate, design and develop hardware & software components and groom their ability to succeed in multidisciplinary & diverse field.	3	3	2	3
To inculcate in graduate's professional attitude, effective communicational skills, team work skills for becoming a responsible, cultured human being	2	3	3	2

Correlation levels are - 1: Slightly ,2: Moderately, 3: Substantially

B. Consistency/justification of co-relation parameters of the above matrix

1. PEO1 (To build strong fundamental knowledge among graduates):

M1 (Facilitate E & TC graduates with sight of innovation): Department aimed to provide engineering graduates with strong fundamental knowledge for better understand and apply innovative concepts and ideas in E&TC domain. Activities are organized for students to learn about technology, which helps them to work on different areas like Embedded systems, AI, machine learning and internet of things. This alignment is at substantial level because a strong foundation is a prerequisite for innovation.

M2 (Provide a stimulating learning environment with modern tools & technologies): Department run various students club and professional chapters, to build strong fundamental knowledge which involves utilizing modern tools and technologies. Various technical events organized to nurture student's technical abilities. This alignment is at substantial level because department has created the necessary and essential environment for achieving PEO1.

M3 (Produce dynamic graduates with ethics and moral values): Building strong fundamental knowledge indirectly supports the goal of producing graduates with ethics and moral values, as a solid foundation is needed for ethical decision-making. This alignment is at a moderate level.

M4 (Impart quality education in the field of electronic and telecommunication engineering to solve societal and industrial problems): Department continuously taking effort for holistic development of students through curricular and co-curricular activities. Resources and platforms are made available for the students to show case their talent at various level. Competitions like hackathon, Industry sponsored projects, technical workshop, Internships, Industrial visit, Social visit were frequently organized. This alignment is at substantial level

PEO1 aligns well with all the mission statements of the department, with substantial alignment with M1, M2, and M4, and moderate alignment with M3. It plays a key role in preparing graduates to excel in various fields, including software and hardware, higher education, and professional development in the Electronics & Telecommunication field, while also contributing to the broader mission of the department.

1. **PEO2 (To enable graduates to identify, analyze, and solve Electronics Engineering problems):**

M1 (Facilitate E & TC graduates with a sight of innovation): Enabling graduates how to identify, analyze, and solve engineering problems is important because it prepares them to adapt to changes in industry and the market. E&TC graduates with better understanding of basic principles and modern techniques are better equipped to innovate and find solutions that benefit both industry and society. This connection is strong and substantial.

M2 (Provide a stimulating learning environment with modern tools & technologies): Curriculum planning and implementation plays vital role to provide students a stimulating learning environment. Well-equipped laboratories, modern hardware and software tools help students to better understand and solve engineering problems. PEO2 aligns substantial level with M2 because it emphasizes the importance of a stimulating learning environment with modern tools and technologies.

M3 (Produce dynamic graduates with ethics and moral values): E&TC graduates who can identify and solve engineering problems are also expected to consider ethical implications. This alignment is at a moderate level, as PEO2 primarily focuses on technical skills.

M4 (Impart quality education in the field of E & TC engineering to solve societal and industrial problems): PEO2 directly aligns with M4 as it contributes to the department's goal of producing graduates who can effectively solve societal and industrial problems through their ability to identify and solve engineering problems. This alignment is at a substantial level.

PEO2 aligns very well with all the mission statements of the department, with substantial alignment with M1, M2, and M4, and moderate alignment with M3. It plays a pivotal role in preparing graduates to excel in electronic and software design, using modern tools to solve real-life problems, while also contributing to the broader mission of your department.

PEO3 (To enable graduates to innovate, design, and develop hardware & software components and succeed in multidisciplinary fields):
M1 (Facilitate E & TC graduates with a sight of innovation): PEO3 aligns substantial with M1 because it is directly focused on fostering innovation. E&TC graduates who can innovate, design, and develop components contribute significantly to the field's innovative progress.
M2 (Provide a stimulating learning environment with modern tools & technologies): PEO3 aligns well with M2 because providing a stimulating learning environment with modern tools and technologies is essential for enabling graduates to innovate, design, and develop components effectively.
M3 (Produce dynamic graduates with ethics and moral values): To improve the technical abilities and skills department primarily focus to conduct activities such as hands on training, expert lecture, workshop, technical competitions. Such activities indirectly support ethics and moral values by grooming E&TC graduates .This alignment is at a moderate level.
M4 (Impart quality education in the field of E & TC engineering to solve societal and industrial problems): PEO3 aligns substantial with M4 because graduates who can innovate, design, and develop hardware and software components contribute to solving societal and industrial problems through technological advancements.

PEO3 aligns very well with all the mission statements of the department, with substantial alignment with M1 and M2, and moderate alignment with M3 and M4. It plays a significant role in preparing graduates to innovate, design, and develop hardware and software components, contributing to multidisciplinary fields and innovation, while also considering ethical and societal implications.

PEO4 (To inculcate professional attitude, effective communication skills, teamwork skills, and responsible, cultured behavior):

M1 (Facilitate E & TC graduates with a sight of innovation): PEO4 indirectly supports innovation because professionals with a professional attitude often promote an innovative and entrepreneurial mindset. Effective communication and teamwork skills are essential for collaboration in innovative projects. This alignment is at a moderate level.

M2 (Provide a stimulating learning environment with modern tools & technologies): PEO4 aligns well with M2 because a stimulating learning environment with modern tools and technologies is good to developing effective communication and teamwork skills. This alignment is at substantial level.

M3 (Produce dynamic graduates with ethics and moral values): PEO4 substantial aligns with M3, as it focuses on producing E&TC graduates with not only technical skilles but also ethical values. Effective communication and teamwork skills are crucial for ethical decision-making and collaboration.

M4 (Impart quality education in the field of E & TC engineering to solve societal and industrial problems): PEO4 aligns moderately with M4 because E&TC graduates with professional attitudes, effective communication, and teamwork skills are better equipped to contribute to solving societal and industrial problems through collaborative efforts and responsible behavior.

PEO4 aligns well with all the mission statements of the department, with substantial aligned with M2 and M3, moderate aligned with M1 and M4. It plays a significant role in preparing E&TC graduates not only with technical skills but also with professional attitudes, effective communication skills, and the ability to work as responsible, cultured human beings.

AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE, New Delhi, Recognized by Government 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 | NBA - 6 UG Programmes

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION II

PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES

2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

2.1 Program Curriculum (20)

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

(State the process details; also mention identified curricular gaps).

Note: *In case all POs are being demonstrably met through University Curriculum then*

2.1.2 *Will not be applicable and the weightage of 2.1.1 will be20.*

As an affiliated institute to SPPU, we strictly follow syllabus and curriculum given by university. The curriculum in Electronics & Telecommunication Engineering maintains a balance among various categories of courses from Science, Mathematics, Engineering and Management, Project sand Internship components.

All courses' outcomes are framed and mapped with all-Program Outcomes (POs) and Program Specific Outcome (PSOs). On the basis of assessment of PO and PSO, academic activities are planned and conducted i.e., Skills based training, expert session by industry personnel, workshops, visits, state-national technical competition etc.

Process used to identify extent of compliance of university curriculum for attaining the POs and PSOs

Following process is used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs).

Table.2.1.1.1: Comparison of Model curriculum of AICTE and SPPU Pune

		AICTE Model Curriculum		SPPU Curriculum 2015		SPPU Curriculum 2019	
Sr. No.	Types of Courses	Courses	Credits	Courses	Credits	Courses	Credits

1	Core Subjects	28	68	33	113	30	80
2	Humanities and Social Science	5	15	2	6	7	15
3	Basic Science	6	23	8	27	6	23
4	Engineering Science	6	17	5	24	8	19
5	Elective +Open Elective Subjects	8	24	4	12	6	25
6	Project	3	17	2	8	3	8
		56	**160**	**54**	**190**	**60**	**170**

(as per the AICTE curriculum model https://www.aicte-india.org/education/model-syllabus) On the basis of credits and contact hours given by Model Curriculum of AICTE and SPPU there exists a curriculum gap. These gaps can be bridged by taking extra efforts in different modes as conducting various activities

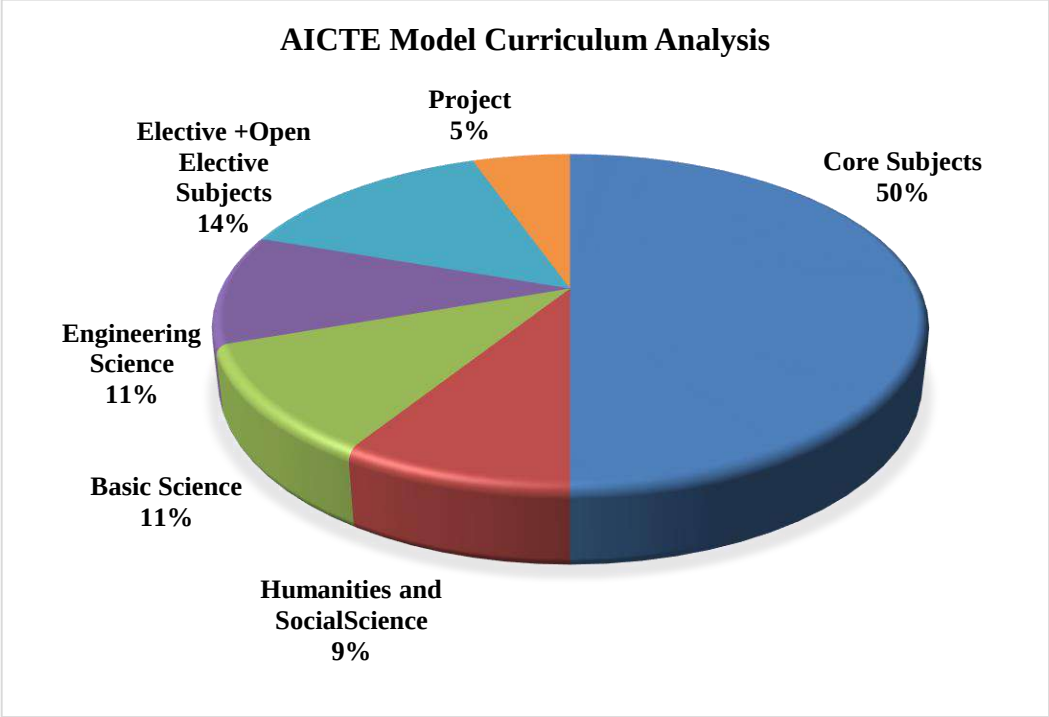


Figure.2.1.1.1 AICTE Model Curriculum Analysis

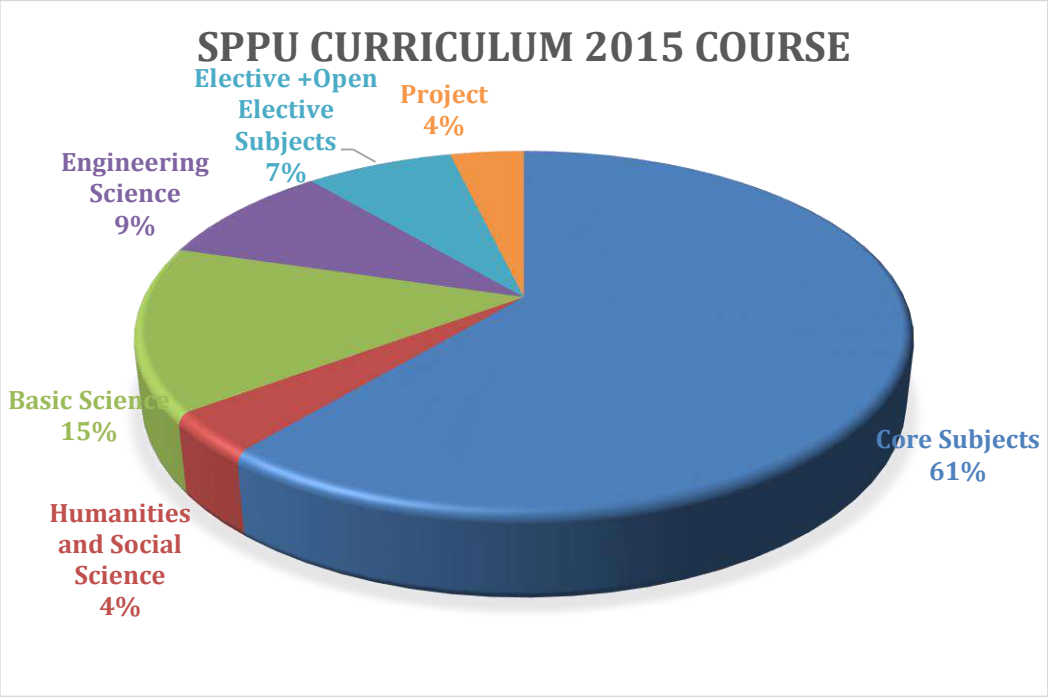


Figure.2.1.1.2 SPPU Curriculum Analysis 2015 course

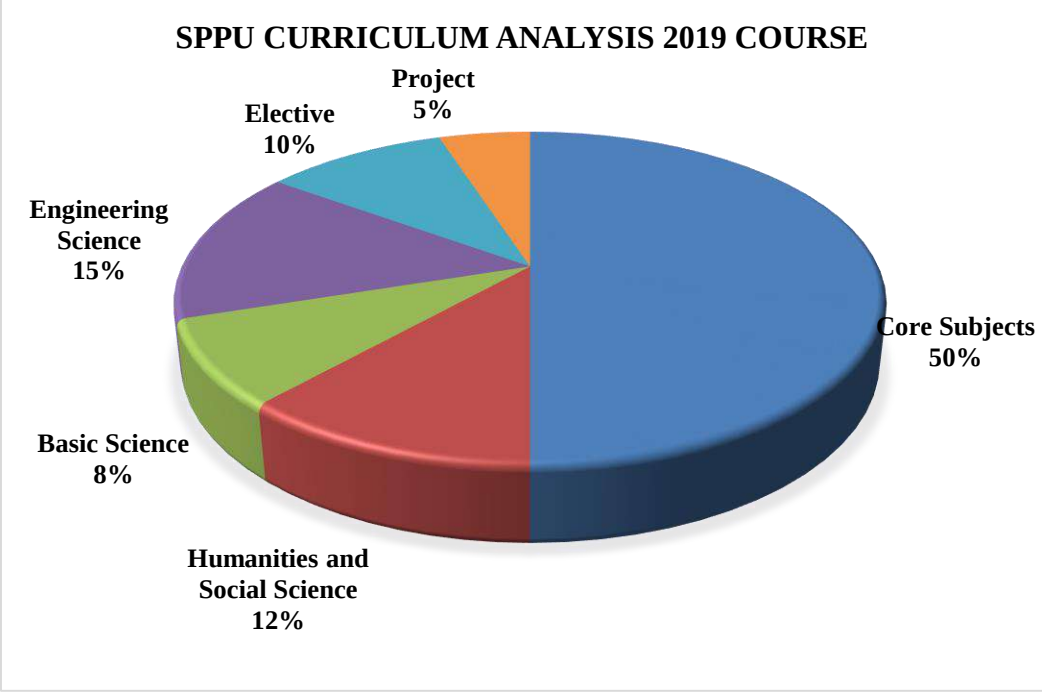


Figure.2.1.1.3 SPPU Curriculum Analysis 2019 course

Syllabus Structure of SPPU Pune:

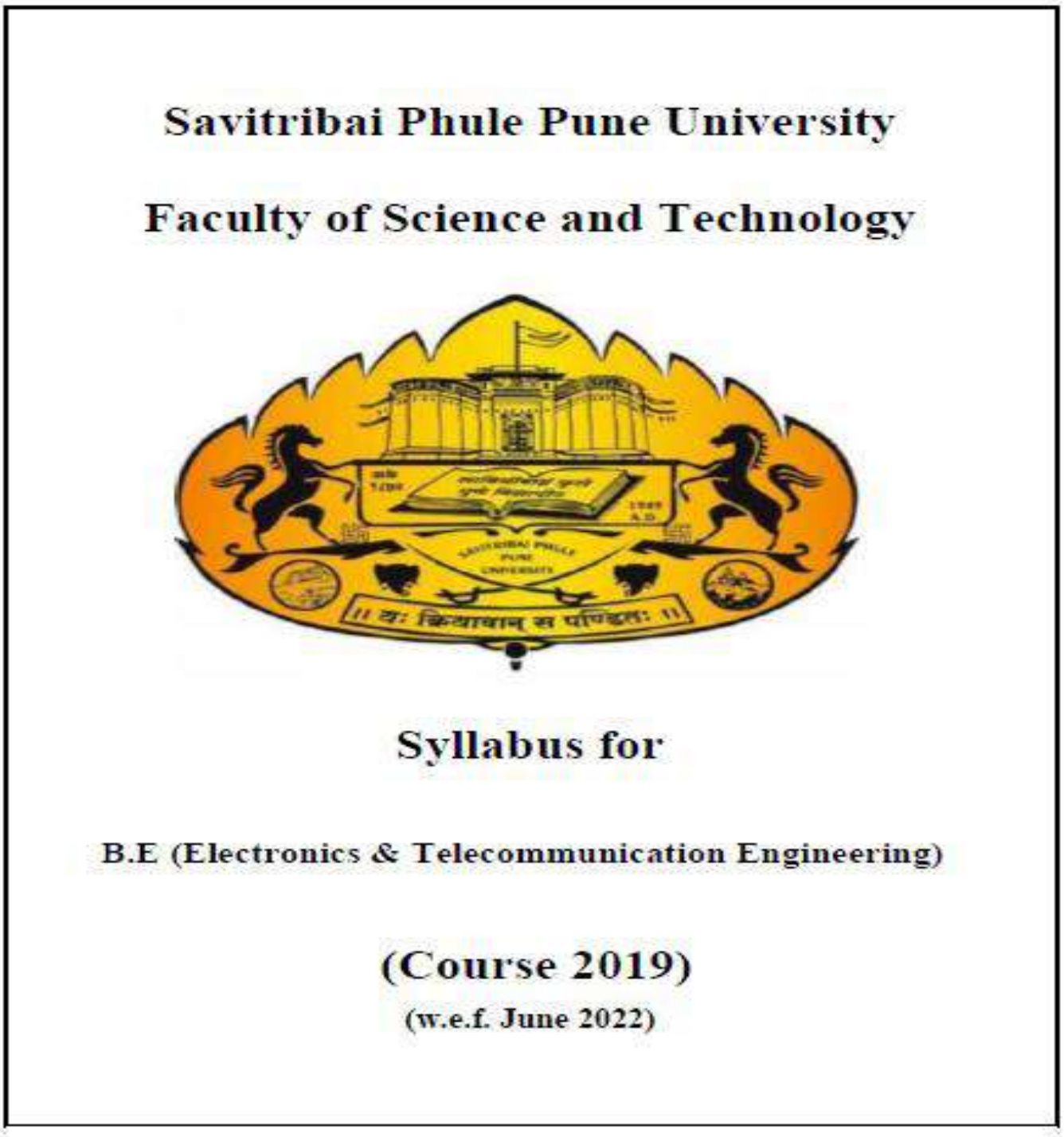


Figure.2.1.1.4 SPPU Syllabus

Savitribai Phule Pune University, Pune
S.E. (Electronics / E&TC Engineering) 2019 Course
(With effect from Academic Year 2020-21)

Semester-III

Course Code	Course Name	Teaching Scheme (Hours/Week)			Examination Scheme and Marks						Credit			
		Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	TH	PR	TUT	Total
207005	Engineering Mathematics III	04	-	01	30	70	25	-	-	125	04	-	01	05
204181	Electronic Circuits	03	-	-	30	70	-	-	-	100	03	-	-	03
204182	Digital Circuits	03	-	-	30	70	-	-	-	100	03	-	-	03
204183	Electrical Circuits	03	-	-	30	70	-	-	-	100	03	-	-	03
204184	Data structures	03	-	-	30	70	-	-	-	100	03	-	-	03
204185	Electronic Circuit Lab	-	02	-	-	-	-	50	-	50	-	01	-	01
204186	Digital circuits Lab		02					50		50		01		01
204187	Electrical Circuit Lab	-	02	-	-	-	25	-	-	25	-	01	-	01
204188	Data Structures Lab	-	02	-	-	-	-	-	25	25	-	01	-	01
204189	Electronic Skill Development	-	02	-	-	-	25	-	-	25	-	01	-	01
204190	Mandatory Audit Course 3 &	-	-	-					-	-	-	-	-	-
Total		**16**	**10**	**01**	**150**	**350**	**75**	**100**	**25**	**700**	**16**	**05**	**01**	**22**

Figure.2.1.1.5 SPPU SE Term-I Syllabus Structure

Savitribai Phule Pune University, Pune
S.E. (Electronics / E&TC Engineering) 2019 Course
(With effect from Academic Year 2020-21)
Semester-IV

Course Code	Course Name	Teaching Scheme (Hours/Week)			Examination Scheme and Marks						Credit			
		Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	TH	PR	TUT	Total
204191	Signals & Systems	03	-	01	30	70	25	-	-	125	03	-	01	04
204192	Control Systems	03	-		30	70		-	-	100	03	-	-	03
204193	Principles of Communication Systems	03	-	-	30	70	-	-	-	100	03	-	-	03
204194	Object Oriented Programming	03	-	-	30	70	-	-	-	100	03	-	-	03
204195	Signals & Control System Lab		02				50			50		01		01
204196	Principle of Communication Systems Lab	-	02	-	-	-	-	50	-	50	-	01	-	01
204197	Object Oriented Programming Lab	-	02	-	-	-	-	-	50	50	-	01	-	01
204198	Data Analytics Lab		02				-		25	25		01		01
204199	Employability Skill Development	02	02	-	-	-	50	-	-	50	02	01	-	03
204200	Project Based Learning ¶	-	04				50		-	50		02		02
204201	Mandatory Audit Course 4&	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	14	14	01	120	280	175	50	75	700	14	07	01	22

Abbreviations:
In-Sem: In semester | End-sem: End semester | TH : Theory | TW : Term Work
PR : Practical | OR : Oral | TUT : Tutorial

Note: Interested students of S.E. (Electronics/E&TC) can opt any one of the audit course from the list of audit courses prescribed by BoS (Electronics & Telecommunications Engineering)

Figure.2.1.1.6 SPPU SE Term-II Syllabus Structure

Savitribai Phule Pune University, Pune
T.E. (Electronics& Telecommunication Engineering) 2019 Course
(With effect from Academic Year 2021-22)

Semester-V

Course Code	Course Name	Teaching Scheme (Hours/Week)			Examination Scheme and Marks						Credit			
		Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	TH	PR	TUT	Total
304181	Digital Communication	03	-	-	30	70	-	-	-	100	03	-	-	03
304182	Electromagnetic Field Theory	03	-	01	30	70	25	-	-	125	03	-	01	04
304183	Database Management	03	-	-	30	70	-	-	-	100	03	-	-	03
304184	Microcontrollers	03	-	-	30	70	-	-	-	100	03	-	-	03
304185	Elective - I	03	-	-	30	70	-	-	-	100	03	-	-	03
304186	Digital Communication Lab	-	02	-	-	-	-	50	-	50	-	01	-	01
304187	Database Management Lab	-	02	-	-	-	-	-	25	25	-	01	-	01
304188	Microcontroller Lab	-	02	-	-	-	-	50	-	50	-	01	-	01
304189	Elective I Lab	-	02	-	-	-	-	25	-	25	-	01	-	01
304190	Skill Development	-	02	-	-	-	25	-	-	25	-	01	-	01
304191A	Mandatory Audit Course 5 &	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**15**	**10**	**01**	**150**	**350**	**50**	**125**	**25**	**700**	-		-	-
										Total Credit	**15**	**05**	**01**	**21**

Elective -I

1) Digital Signal Processing
2) Electronic Measurements
3) Fundamentals of JAVA Programming
4) Computer Networks

Figure.2.1.1.7 SPPU TE Term-I Syllabus Structure

Savitribai Phule Pune University, Pune
T.E. (Electronics& Telecommunication Engineering) 2019 Course
(With effect from Academic Year 2021-22)

Semester-VI

Course Code	Course Name	Teaching Scheme (Hours/Week)			Examination Scheme and Marks						Credit			
		Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	TH	PR	TUT	Total
304192	Cellular Networks	03	-	-	30	70	-	-	-	100	03	-	-	03
304193	Project Management	03	-	-	30	70	-	-	-	100	03	-	-	03
304194	Power Devices & Circuits	03	-	-	30	70	-	-	-	100	03	-	-	03
304195	Elective-II	03	-	-	30	70	-	-	-	100	03	-	-	03
304196	Cellular Networks Lab	-	02	-	-	-	-	-	50	50	-	01	-	01
304197	Power Devices & Circuits Lab	-	02	-	-	-	-	50	-	50		01		01
304198	Elective-II Lab	-	02	-	-	-	-	25	-	25	-	01	-	01
304199	Internship**	-	-	-	-	-	100	-	-	100	-	-	04	04
304200	Mini Project	-	04	-	-	-	25	-	50	75	-	02	-	02
304191 E	Mandatory Audit Course 6 #	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**12**	**10**	**00**	**120**	**280**	**125**	**75**	**100**	**700**				
									Total Credit		**12**	**05**	**04**	**21**

Abbreviations:
In-Sem: In semester | End-Sem: End semester | TH: Theory | TW : Term Work
PR: Practical | OR: Oral | TUT: Tutorial

Note: Students of T.E. (Electronics & Telecommunications) have to opt any one of the audit course from the list of audit courses prescribed by BoS (Electronics & Telecommunications Engineering)

Elective -II

1) Digital Image Processing
2) Sensors in Automation
3) Advanced JAVA Programming
4) Embedded Processors
5) Network Security

Figure.2.1.1.8 SPPU TE Term-II Syllabus Structure

Savitribai Phule Pune University, Pune
B.E. (Electronics & Telecommunication) 2019 Course
(With effect from Academic Year 2022-23)

Semester-VIII

Course Code	Course Name	Teaching Scheme (Hours/Week)			Examination Scheme and Marks						Credit			
		Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	TH	PR	TUT	Total
404190	Fiber Optic Communication	03	-	-	30	70	-	-	-	100	03	-	-	03
404191	Elective - 5	03	-	-	30	70	-	-	-	100	03	-	-	03
404192	Elective - 6	03	-	-	30	70	-	-	-	100	03	-	-	03
404193	Innovation & Entrepreneurship	-	-	02	-	-	50	-	-	50	-	-	02	02
404194	Digital Business Management	-	-	02	-	-	50	-	-	50	-	-	02	02
404195	Fiber Optic Lab	-	02	-	-	-	25	-	50	75	-	01	-	01
404196	Lab Practice - 3 (Elective - 5)	-	02	-	-	-	25	50	-	75	-	01	-	01
404197	Project Stage - II	-	10	-	-	-	100	-	50	150	-	05	-	05
	Total	**09**	**14**	**04**	**90**	**210**	**250**	**50**	**100**	**700**	-	-	-	-
										Total Credits	**09**	**07**	**04**	**20**

Elective - 5	Elective - 6
1. Biomedical Signal Processing	1. System on Chip
2. Industrial Drives & Automation	2. Nano Electronics
3. Android Development	3. Remote Sensing
4. Embedded System Design	4. Digital Marketing
5. Mobile Computing	5. Open Elective

Figure.2.1.1.10 SPPU BE Term-II Syllabus Structure

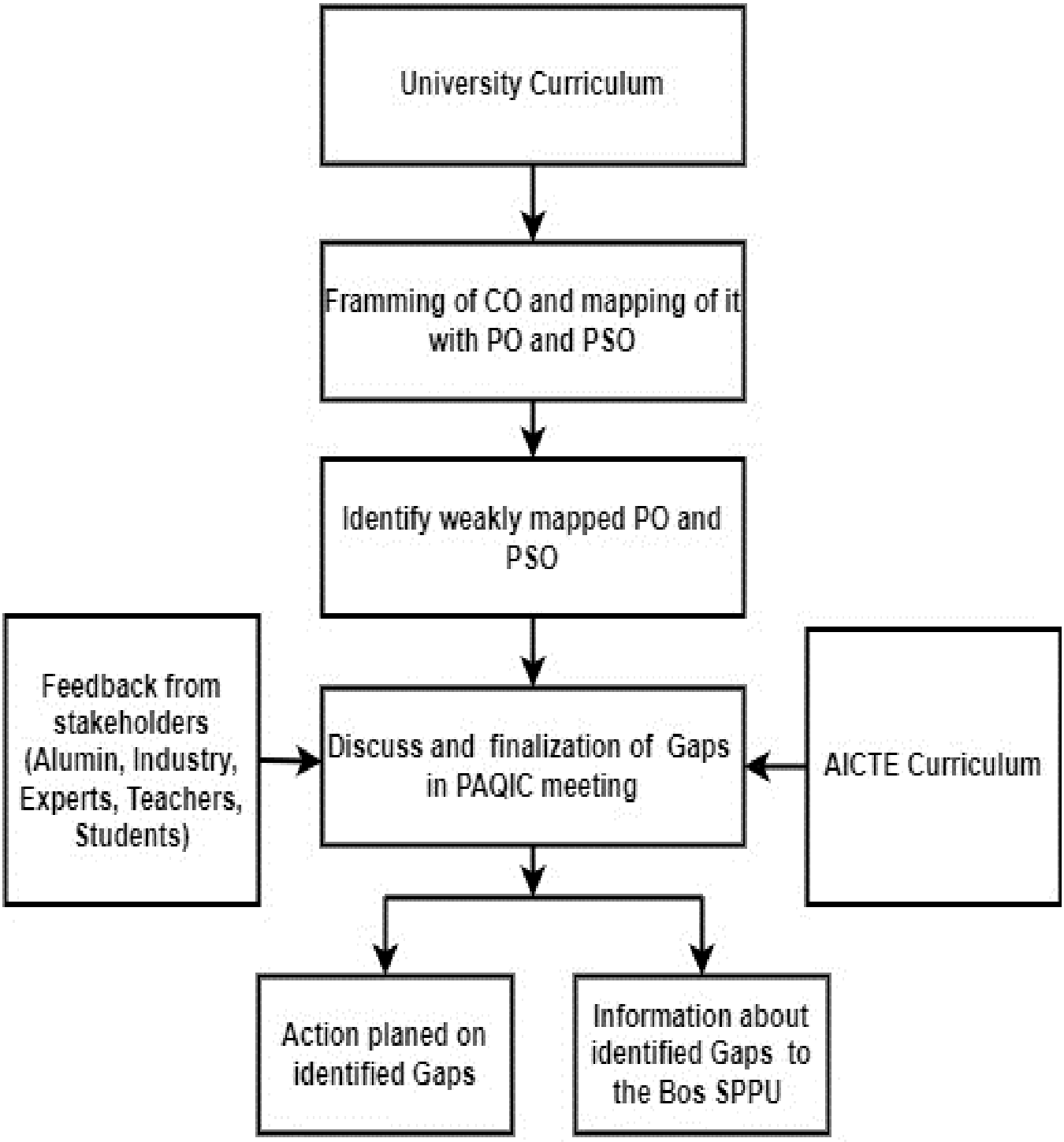


Figure.2.1.1.11 Process used to identify extent of compliance of university curriculum

Following processes are adopted by departments to identify the gaps

- Comparison of model curriculum of AICTE and SPPU Pune
- Analyzing the CO and PO-PSO mapping
- Inputs from internal and external stakeholders

PO- PSO mapping with curriculum components for 2015 course

Table 2.1.1.2: PO- PSO mapping with curriculum components for 2015 course

Sr No	Type of Course	Course Code	Name of Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	Basic Science	101005	Basic Civil and Environmental Engineering	2	2	1	1	1	1	1								
2		101011	Engineering Mechanics	2	2	1												
3		102006	Engineering Graphics I	3	2								1					
4		102013	Basic Mechanical Engineering	2	2													
5		102014	Engineering Graphics II	2	1			1										
6		103004	Basic Electrical Engineering	3	1	1										1.5	1	
7		104012	Basic Electronics Engineering	2	1	1		1								2	2	1
8		111007	Workshop Practice	2	1	1			1									
9	Engineering Science	107001	Engineering Mathematics I	3	2	1										1		
10		107002	Engineering Physics	2	1	1		1								1	1	
11		107008	Engineering Mathematics II	3	2	1										1		
12		107009	Engineering Chemistry	3	1	1												
13		207005	Engineering Mathematics III	3	2	1										1		
14	Humanities & Social Sci.	204192	Audit Course 1 (Japanese Language Module 1)		1	1			2	1	2	2	3	1	2			
15		204193	Audit course-II(Japanese Language Module 1)		1	1			2	1	2	2	3	1	2			
16			Audit course-III Cyber and Information Security	1	1				2		1	2	3	1	2			
17			Audit course-I Embedded System Using MSP430	2	2	1			2		1	2	3	1	2			
18			Audit course-V(Human		1	1			2	1	2	2	3	1	2			

			Behaviours)															
19			Audit course-VI(Environment Issues and Discusser)		1	1			2	1	2	2	3	1	2			
20		204191	Employability Skill Development	1	2	1	1	1	1	1	2	3	2		1	1	1	3
21		304188	Business Management	1	2	2		2	2	2	2	2	1.2	2	1			1
22	**Core Subjects**	110003	Fundamentals of Programming Languages I	3	2	1		2										
23		110010	Fundamentals of Programming Languages II	3	2	1		2										
24		204181	Signals & Systems	3	3	1	1				1		1			2	1	
25		204182	Electronic Devices & Circuits	2	2	2	2	2								2	2	
26		204183	Electrical Circuits and Machines	3	3	1	1				1		1			2	1	
27		204184	Data Structures and Algorithms	2	2	1	2	3			1		1			2	1	1
28		204185	Digital Electronics	2	2	2	2	2			1		1			2	1	
29		204186	Electronic Measuring Instruments & Tools	1	2	1	1	1	1	1	2	3	3		1	1	1	3
30		204187	Integrated Circuits	3	3	1	1				1		1			3	2	
31		204188	Control Systems	1	2	1	1				1		1			1	1	
32		204189	Analog Communication	3	1.5		1	2	1		1	1				1		1
33		204190	Object Oriented Programming	2	2	1	1	3			1		1			2	1	
34		304181	Digital Communication	3	3	3	1		1		1		1			2		
35		304182	Digital Signal Processing	3	3	2	2	1			1		1			1	1	
36		304183	Electromagnetics	3	2	1	1	1					1			3	1	
37		304184	Microcontrollers	2	3	3	2	2			1		1			1	3	1
38		304185	Mechatronics	2	2	2	1	2	1	1						1	2	2
39		304193	Electronics System Design	3	3	2	1	2			1	1	1			3	3	2
40		304186	Power Electronics	2	3	1	2	2			1		1			2	2	1
41		304187	Information Theory, Coding and Communication Networks	3	3	2	2	2			1		1			2		
42		304189	Advanced Processors	2	3	2	1	2			1		1			1	2	
43		304190	System Programming and Operating Systems	2	2	1	1.5	3			1		1			2	1	
44		404181	VLSI Design& Technology	2	2	3	2	3	1	1			2			3	1	1

45		404182	Computer Networks & Security	3	3	2	2	2			1		1			1	1	
46		404183	Radiation & Microwave Techniques	3	3		1				1		1			2	1	
47		404184	Internet of Things	2	3	2	2	2	1		1		1		1	2	2	1
48		404185	Artificial Intelligence	2	2	2	3	3			1				2	3	2	
49		404189	Mobile Communication	3	1	1	2	1					1				1	1
50	**Electives**	404190	Broadband Communication Systems	3	3	3	1		1		1		1			3		
51		404191	Audio Video Engineering	1	1	1	1	2		2					1	2	1	
52		404191	Machine Learning	3	3	2	2	2	1		1	1	1	1	1	2	2	1
53		404192	Renewable Energy Systems	2	2	1	2		2	2						1		2
54	**Projects**	304196	Employability Skills and Mini Project	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
55		404188	Project Stage I	2	3	2	3	2	2	3	2	2	2	3	3	3	3	3
56		404195	Project Stage II	3	3	3	3	3	2	2	3	3	3	3	3	3	3	3
Average				**2.35**	**2.08**	**1.55**	**1.63**	**1.96**	**1.52**	**1.45**	**1.32**	**2.09**	**1.62**	**1.59**	**1.75**	**1.85**	**1.62**	**1.71**

Average of course category wise PO PSO for 2015:

Table 2.1.1.3: Average of course category wise PO PSO for 2015

	Basic Science	Engineering Science	Humanities & Social	Core Subjects	Electives	Projects
PO1	2.25	2.80	1.31	2.43	2.17	2.83
PO2	1.50	1.67	1.31	2.43	2.15	3.00
PO3	1.00	1.00	1.14	1.70	1.75	2.83
PO4	1.00		1.00	1.53	1.60	3.00
PO5	1.00	1.00	1.50	2.04	2.25	2.72
PO6	1.00		1.88	1.00	1.33	2.17
PO7	1.00		1.13	1.00	2.00	2.33
PO8			1.75	1.05	1.00	2.33
PO9			2.10	1.67	1.00	2.83
PO10	1.00		2.71	1.13	1.09	2.83
PO11			1.14		1.00	2.83
PO12			1.75	1.33	1.00	2.67
PSO1	1.75	1.00	1.00	1.88	1.92	3.00
PSO2	1.42	1.00	1.00	1.52	1.75	2.89
PSO3	1.00		2.00	1.45	1.50	2.72
	1.27	**1.41**	**1.51**	**1.58**	**1.57**	**2.73**

List of Curriculum Gaps:

Table.2.1.1.4: List of Curriculum Gaps

Gap No	Description of Gap Identified
1	The curriculum need to incorporate a more comprehensive range of content that emphasizes social and ethical responsibilities.
2	The curriculum need to incorporate the content focused on environmental sustainability.
3	The curriculum need to incorporate content that pertains to communication skills
4	The curriculum needs to incorporate advanced technological content and simulation tools

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

To,
The Chairman BoS(E&TC), SPPU, Pune

Subject: Suggestions for TE (E&TC/Elx) 2019 Course syllabus revision

Reference: Your mail regarding TE (E&TC/Elx) Syllabus Revision dated 20 Dec 2020

Respected Sir,
We have received your mail regarding TE(E&TC/Elx) Syllabus revision. We are very much thankful to you for this mail. We have collected and analyzed feedback from various stakeholders regarding curriculum revision. Based on feedback received, we request you to consider the following suggestions while framing TE syllabus.

- Six-month internship provision should be made into curriculum for better practical exposure. Some credits should be given to this.
- More credits to be given for practical's
- Provision of electives to be made for Third year
- Block chain and cryptography related subject to be added
- Programming with GUI and backend DBMS to be added in TE Sem-I
- Robotics and AI to be included
- Basics of file handling to be added in the syllabus
- Wireless sensor networks subject should be included in Third Year syllabus.
- In DSP, introduction to Multirate signal processing may be added

- TE E&TC ... Power Electronics Subject: Design of UPS/Battery Chargers to be added, Power Diode and Power Transistors to be added
- PLC and IoT based Industrial Automation need to be added
- Practical Interfacing of smart sensors with controllers to be incorporated
- Subject on data analytics or data science to be added.
- In Business Management: Technological Innovation, Business ethics to be added
- In Microcontrollers or Advanced Processor subject, interfacing of Microcontrollers with wireless protocols needs to be included.
- One or two experiments on DSP processors may be added.
- In mini projects provision of Software projects such as web page development, App. Development can be included
- communication protocol development topic may be added in one of the subject

Suggestion for Elective Subjects to be added from TE E&TC (2019 Course)

- Computer graphics and microelectronics
- Industrial Automation
- Sensors and Interfaces
- DBMS
- Communication Protocol

You are always updating the curriculum as per industry requirements and helping to bridge the gap between Industry and academia. We also would like to express our gratitude to making the provision of Honor degree in the curriculum.

Kindly consider the above suggestions while framing Third year syllabus. Thanking you.

Regards,

Dr D G Bhalke Professor and Head,
Dept of E&TC, AISSMSCOE Pune.

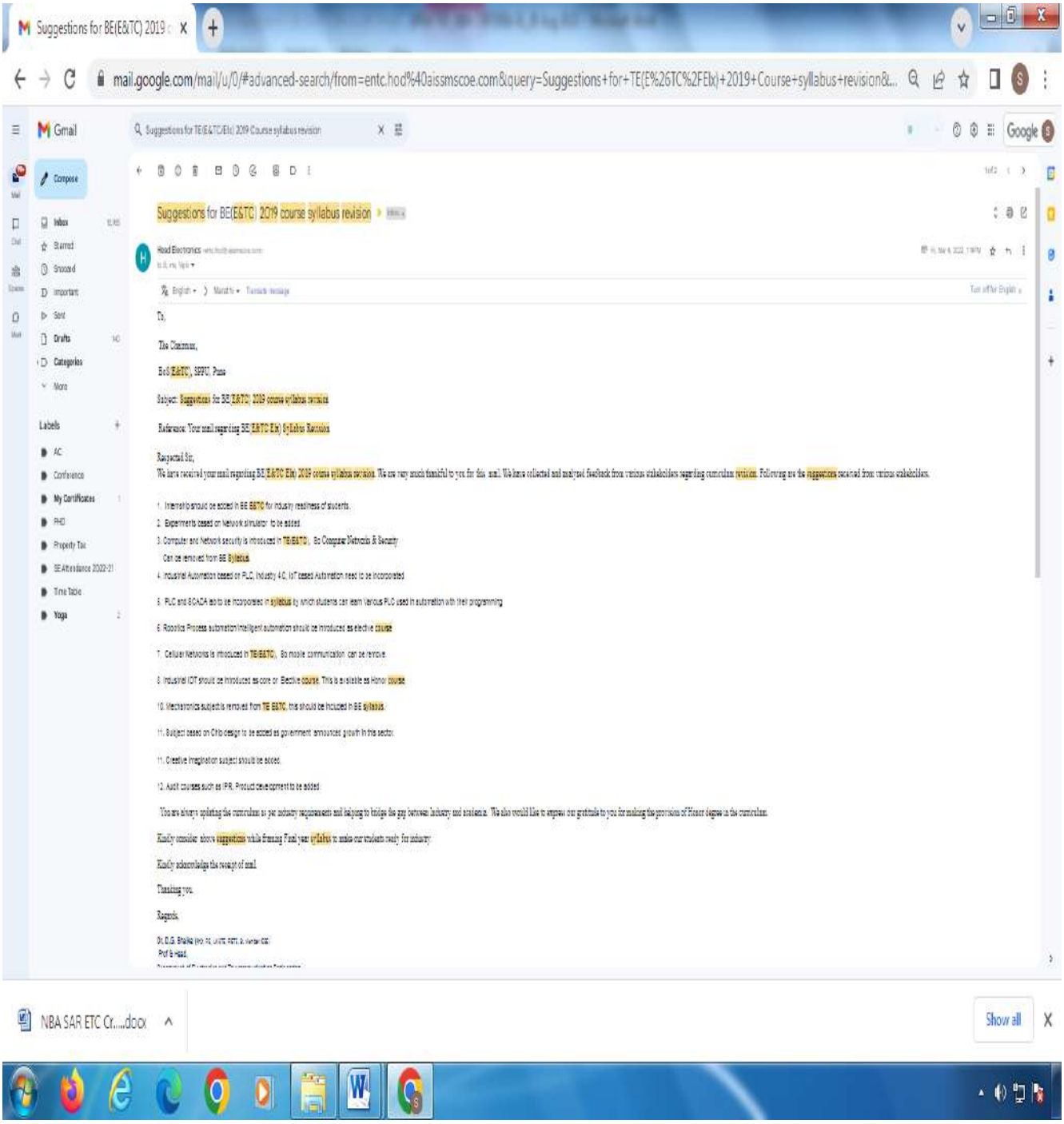


Figure:2.1.2.1 Email to BOS on curriculum revision

Delivery details of content beyond syllabus (5):

- Faculty handling the course shall conduct special lectures (Add-on courses) to address the content beyond syllabus and to bridge the curriculum gap.
- Students shall be encouraged to work with innovative ideas and shall focus on current technological trends to do their Seminars and Projects in the final year, to acquire knowledge beyond syllabus.
- Expert classes shall help the students to get a better understanding of the concepts beyond the scope of the syllabus.
- Technical fests shall be organized by the students which enable them to be aware of the new frontiers in engineering
- Department shall organize Industrial visits and support students to do Projects at industries to make them conscious of the challenges in the industry.
- Students shall be encouraged to attend various online courses (COURSERA, NPTEL) and trainings to address the content beyond syllabus.
- National Service Scheme (NSS) shall help students to take up socially relevant projects, there by imparting social commitment and environmental awareness which is minimally addressed by the curriculum.
- Students shall be encouraged to publish in-house technical Magazine and Newsletter which not only helps them to be aware of the recent trends in industry and research but also enhances the organizing skills
- Department Association and Professional Bodies student chapter and various informal student groups shall take initiative to organize Conferences, Industry institute interaction Programmes, Workshops, Seminars, and Invited Talks frequently for students by including experts from industries, reputed institutions and alumni

2.1.2.3. Mapping of content beyond syllabus with the POs & PSOs (3)

Table 2.1.2.1 Details of content beyond syllabus activities

Sr. No.	GAP	Action taken	DD/MM/ YYYY	Resource Person With Designation	No of students	Relevance to POs, SOs
2023-24						
1	1,4	Seminar on "Awareness on Industry 4.0	22/08/2023	Ms. Mrunal , C4i4 lab Pune	35	PO5 PO6 PO12
2	2	Webinar on 'Robotics in Dynamic Environment' & RoboSphere	02/10/2023	Dr Shittal Chiddarwar, Professor VNIT, Nagpur	80	PO7
3	1,2,3	Industry Visit to Megha Embedded Systems India Pvt.Ltd.	27/09/2023 and 11/10/2023	Coordinators: Dr. R R Itkarkar Mrs.G D Salunke	36+76	PO9 PO10PO11
4	1	Social Visit to Mother Teresa Home, Tadiwala Road, Pune	20/10/2023	Coordinators: Dr. R R Itkarkar Mrs.G D Salunke	10	PO6 PO8 PO12
5	1,2,3	Expert lecture on Project selection and Planning	25/01/2024	Mr. D R Patil, AutoDynamic Tech. & Solutions Pune	40	PO7 PO8 PO9 PO11
6	1	Social Visit to Maher Vatslyadham, Kharadi	31/01/2024	Coordinators: Dr. R R Itkarkar Mrs.G D Salunke	46	PO6 PO8 PO12
2022-23						
1	1	Role of IEEE in Engineering Education in association with AISSMS COE Library	08/09/2022	Mr. Gaurav Date -Training Manager, EBSCO	152	PO6 PO12
2	1	Social Visit to Balkalyan Sanstha Pune	29/07/2022	Dr. R R Itkarkar	62	PO6 PO8 PO12
3	1,2,3	Guest lecture on IPR	13/10/2022	Dr. Kishor Wagh	60 SE students	PO6 PO8 PO10
4	1,4	How to write Research Paper	15/02/2023	Dr. V V Deshmukh - AISSMS COE Pune	60	PO8,PO9,PO 10

5	1,2,3	How to Plan Startup (legal and ethical steps)	18/04/2023	Speaker: Mr. Swacchand Gokhale- Partner at Gokhale Bhave Associates Pune	106	PO8,PO9,PO 10
6	1,2	Online video session on E Waste Management	17/02/2023	Coordinator: Mrs. V S Navale	56	PO7,PO8
7	1,2	Project: Solar Panel Cleaning System	2022-23	Guide: Mr. V B Gawai	67	PO7,PO8
8	1,3	Sessions on Soft Skill Development	2022-23		152	PO8,PO10
2021-22						
1	1	Webinar on Entrepreneurship and Atmanirbhar Bharat for Start UP India	07/07/2021	Dr. Enty Ranga Reddy, Chairman, AISC, IE (I), Kolkata	90	PO6 PO8
2	1	Being Interview Ready and Cultivating Emotional Intelligence for Work Ready	23/08/2021	Ms. Monika Nehe, Assistant Manager,US West TCS	85	PO6,PO8
3	3	Opportunities and Preparation for Campus Placement.	24/08/2021	Mr. S P Raoborde, TPO, JSPM, Pune	92	PO10
4	1,3	Panel Discussion	24/08/2021	BE E&TC 2020-21 Batch Students	80	PO6, PO8, PO10
5	1	Key to Stress and Time Management.	24/08/2021	Dr. R. Jalnekar, Director, VIT, Pune	80	PO6, PO8
6	1,2,3	1 Week Drone Operations Development	06/09/2021 10/09/2021	Speakers from RGB Buds Group	78	PO6, PO7, PO8, PO10
7	1,2	International Webinar on 'Smart, Clean and Green Electrical Energy for the Sustainable Future' on the occasion of IEEE Day 2021 Celebration	05/10/2021	Dr. Deepak Waikar, Chair, IEEE Education Society, Singapore Chapter	80	PO6,PO7
8	4	Expert Lecture on Current Software platforms for Career development	04/12/2021	Mr.Irfan Mopmin Prolific Soft Pvt Ltd	36	PO5

9	4	Expert Session on 'BSNL- GSM and LTE Technology'	06/04/2022	Mr. Nilesh Wankhede, Principal, Regional Telecom Training Center, Pune	85	PO3
10	4	Expert Lecture on Advance Communication System	12/04/2022	Mr.Anirudha Kulkarni	69	PO5
11	4	Expert Lecture on Recent Trends and technologies in Fiber Optics Communication	19/04/2022	Mr.Sudam Chavan Tata Communication Pune	76	PO5
12	1,3	Sessions on Soft Skill Development	2021-22		152	PO8,PO10
2020-21						
1	1	Gender equality, Let's Rise From Shadows	15/07/2020	Mrs.Alka Joshi, Founder Member of the Abhivyakti group.	90	PO6
2	4	Embedded System And RTOS	02/09/2020	MR. Dnyanesh Joshi	85	PO3
3	4	Expert Lecture DELSIM SIMULATOR	24/09/2020	Mr.Akshay Kudale Delsim, Pune	81	PO3,PO5
4	1	Learn Skills in Solar	02/10/2020		85	PO8
2019-20						
1	4	Event On Automation Anywhere	17/07/2019 19/07/2019	Mr. Manoj Kumar	70	PO3
2	1	Webinar on "Role of Youth in attaining Atmanirbhar Bharat in Energy."	25/08/2019	Dr. Anil Kakodkar, Mrs. Ela Gandhi, Dr. Diana Urge-vorsatz, Prof. Subhas Chaudhari, Licypriya Kangujam, Dr. Chetan Singh Solanki	90	PO6
3	4	Expert Lecture on RF Circuit Design and new Technologies in it	11/09/2019	Ms Renuka Wekhande Project Manager, S M Technologies, Pune	61	PO3,PO5
4	3	Drone Competition EX-1	18/09/2019 19/09/2019	Air-O-Task (Drone)	46	PO10
5	3	Robo Competition EX-2	18/09/2019 19/09/2019	Robo Revolution 2.0 (Robo Soccer)	72	PO10
6	1,4	On Expert Lecture Recent Trends in Wireless Communication&5G	07/10/2019	Mr Vishal Mhaskar Asst Manager Vadafone idea LTD.	55	PO1,PO5,PO6
7	1,3	Project Exhibition and Competition	10/10/2019	Dr. Sarika Panwar, Dr. D.P. Gaikwad	95	PO3,PO10

8	4	Convolution and Recurrent Neural Network	04/01/2020	Mr.Suraj Gawade Design Tech. Ltd. Pune	80	PO3.PO5
9	4	Expert Lecture Block Chain Technology	25/02/2020	Mr. Vijay Balaji Elargo, Vice President, Emurgo India	47	PO5
10	1	Webinar on "Leadership Development in Women Professional Entrants"	30/05/2020	Mrs. Priti Munshi, Senior Delivery Manager, Member of Rotary Clucb, Pune	72	PO8

2.1 Teaching - Learning Processes (100)

2.2.1 Describe Processes followed to improve quality of Teaching &Learning (25)

(Processes may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as real world examples, collaborative learning, quality of laboratory experience with regard to conducting experiments, recording observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)

A. Adherence to Academic Calendar:

The institute is affiliated with SPPU and aligns its academic calendar with that of the university. Prior to the start of each semester, the institute develops its own academic calendar, which is inline with the university's schedule. Subsequently, the department formulates its academic calendar to highlight the department's planned events, aligning with the institute's calendar.

- The department academic calendar is prepared based on SPPU Pune and institute academic calendar before starting of every semester.
- Commencement and conclusion of semester, university Insem, oral practical and Endsem examinations are planned and executed as per the university and institute academic calendar.
- Subject allotment is done well in advance for the staff to prepare teaching plans.
- The lectures and practical are conducted according to the department time table. The faculty of department adopts various innovative teaching and learning methodologies to create the best learning environment for the students.
- Assignments, Internal Unit Tests, makeup classes, remedial classes are executed according to the planning in the academic calendar.
- Assignment scheduling and distribution of corrected sheets are executed as per academic calendar.

- Department examination coordinator prepares time table of internal class tests as per the academic calendar as well as evaluation of answer sheets.
- Industrial visits, Guest Lectures, Seminars, Workshops, Mock practical's and Oral examinations, Project presentation, Project exhibition are conducted as per the academic calendar.
- Academic teaching and other department facility feedback is taken twice in a semester.

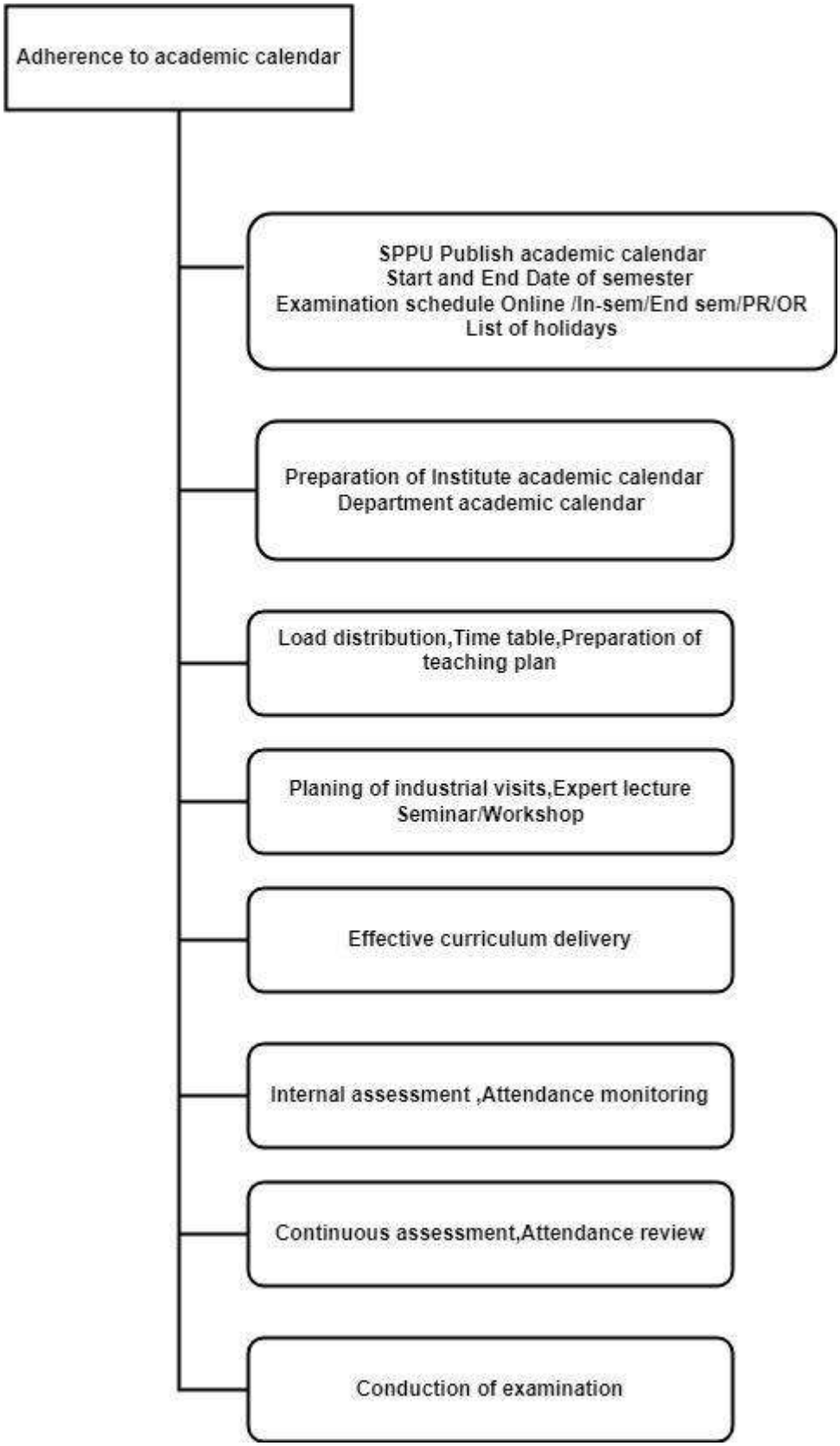


Figure 2.2.1.1 Adherence to Academic Calendar

Sample academic calendars of Savitribai Phule Pune University (SPPU), Institute academic calendar and department academic calendar for academic year (AY) 2021-22 Term- II are presented in Fig.2.2.1.2, Fig.2.2.1.3, and Fig.2.2.1.4 respectively.

University Academic Calendar:

Savitribai Phule Pune University
(formerly University of Pune)

Circular No. 173 of 2022

Important Notification

Dates of Commencement and Conclusion of terms for the Academic Year 2022-23
for Affiliated Colleges / Recognised Institutes.

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of University Courses, under various faculties, for the academic year 2022-23 shall be 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	08/11/2022	05/12/2022	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	05/11/2022	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	19/12/2022	04/05/2023
	M.Architecture:II 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	08/11/2022	05/12/2022	04/05/2023
	MBA II (Includes OJP project of 8 week)	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	08/11/2022	05/12/2022	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	08/11/2022	05/12/2023	15/05/2023
	B. A. L.L.B. II	31/10/2022	31/01/2023	06/02/2023	20/05/2023
	B. A. L.L.B. III IV V	04/07/2022	08/11/2022	05/12/2023	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	25/11/2022	02/01/2023	04/05/2023
	Fine Arts & Performing Art	20/06/2022	08/11/2022	05/12/2022	04/05/2023
				02/01/2023	04/05/2023

Figure 2.2.1.2 SPPU University Academic Calendar

Institute Academic Calendar:

AISSMS
COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय

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 Shivaratri
		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, GPM Meeting: Every Friday
IQAC, ILC, ADC, CDC meetings to be conducted as per the instructions from authorities.

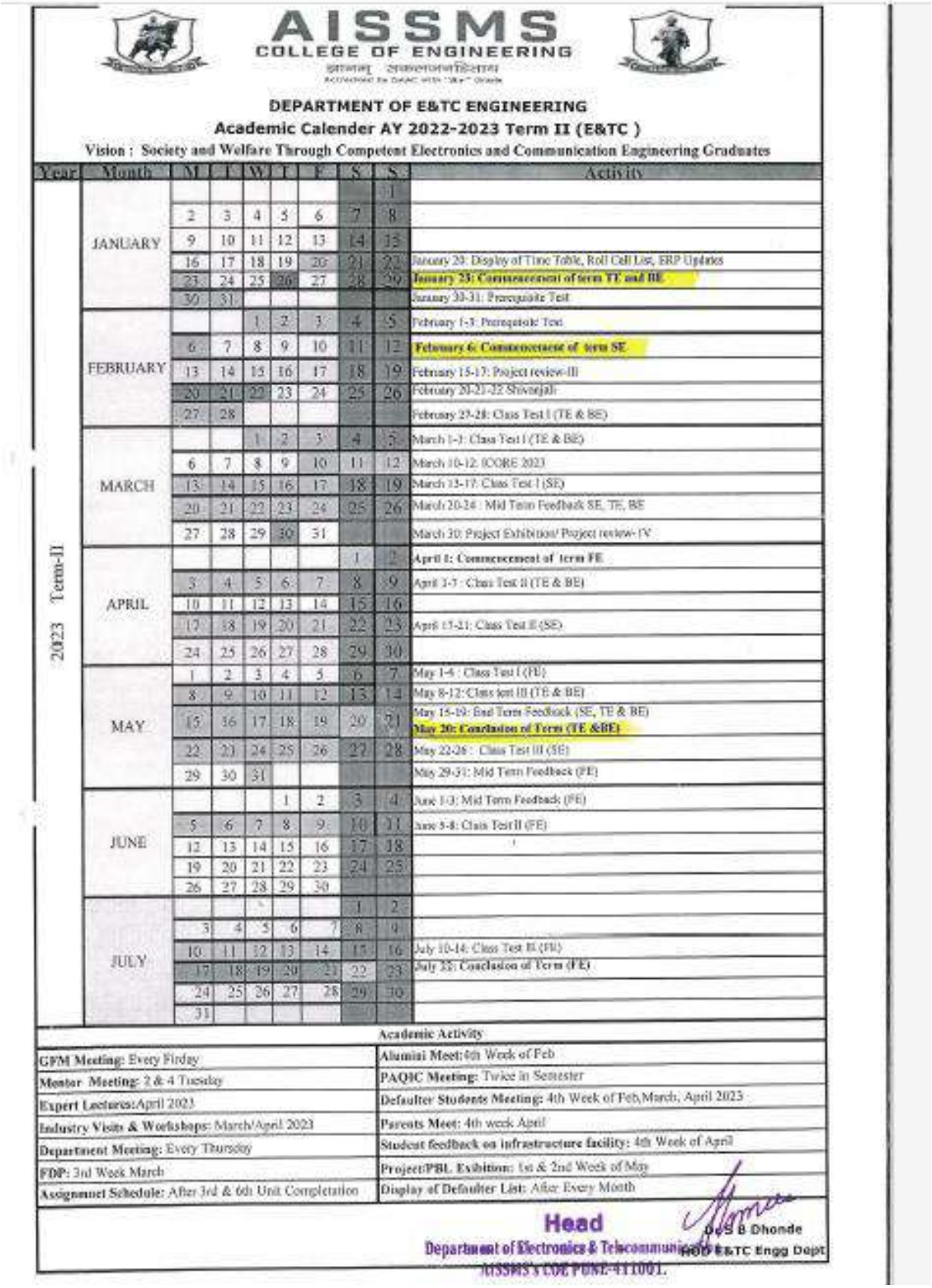
PRINCIPAL
AISSMSCOE, PUNE

Figure. 2.2.1.3 Institute Academic Calendar

Department Academic Calendar:

Following major activities are included in Department Academic Calendar:

- Departmental Vision and Mission statement.
- Commencement and conclusion of UG term as per the Institute and university academic calendar.
- Insem, practical, Term work, Oral and Endsem examinations as per the Institute calendar in line with the university schedule.
- Engineering Today
- Departmental class tests scheduled, assessment and distribution of answer sheets
- Schedule for assignment and distribution of Corrected sheets.
- UG Level Time table and Roll call list display date.
- Mid-term review of Academics
- Mid-term and End-term Feedback from the students.
- HOD Meeting
- Mentor Meeting
- GFM Meeting
- DAB Meeting
- PAQIC Meeting
- Student chapter Activities.
- Defaulter's list display schedule.
- Expert talks, Industrial Visits Schedule
- Technical Activities like Webinar, Workshop, Consultancy, STTP, FDP etc.



AISSMS
COLLEGE OF ENGINEERING

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 Term-II	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 23-28: 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 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 22: Conclusion of Term (FE)
		24	25	26	27	28	29	30	
		31							

Academic Activity

GPM Meeting: Every Friday	**Alumni 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 & Telecommunication
AISSMS's COE PUNE-411001.

D S B Dhonde
HOD E&TC Engg Dept

Figure. 2.2.1.4 Department of E&TC Academic Calendar

Department Academic Planer:

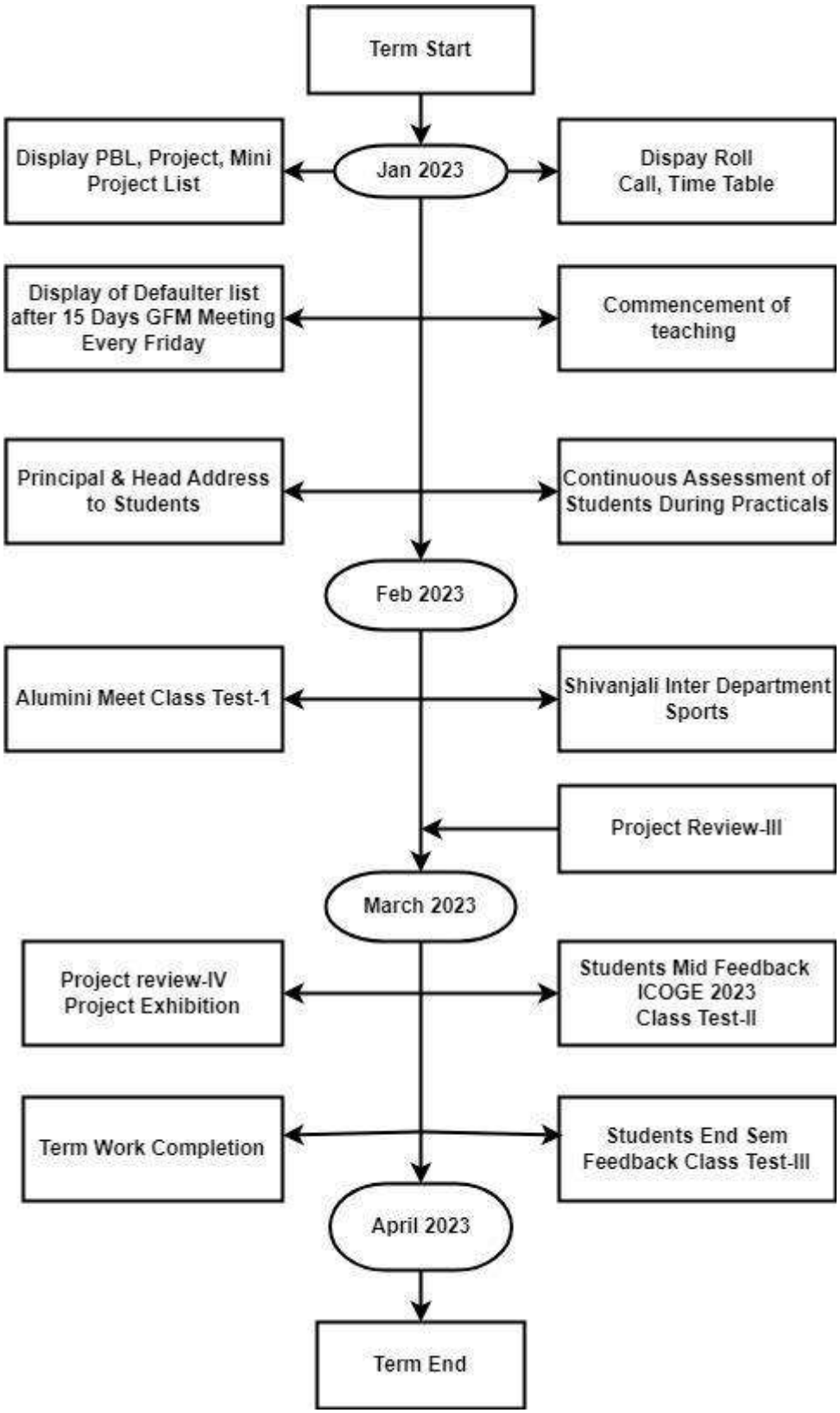


Figure. 2.2.1.5 Department of E&TC Academic Planner

B. Use of various instructional methods and pedagogical initiatives

The latest teaching and learning instructional methodologies were used to motivate students to learn and retain the knowledge through better understanding. Using the following methods, a positive attitude towards the subjects taught were developed in the students:

1) Active learning:

- The faculties adopted an active learning methodology by involving students in the learning process more directly using activities like:
- Brainstorming, quiz, debate, group discussions, role play, games, model making, miniproject, presentations, essay, elocutions, case studies and simulations on technical content. Replacing some lectures with animated PPTs.
- Hands-on experiences.
- Challenging students to take up open ended problems requiring critical/creative thinking. Short pauses for reflection during lectures, brief demonstration

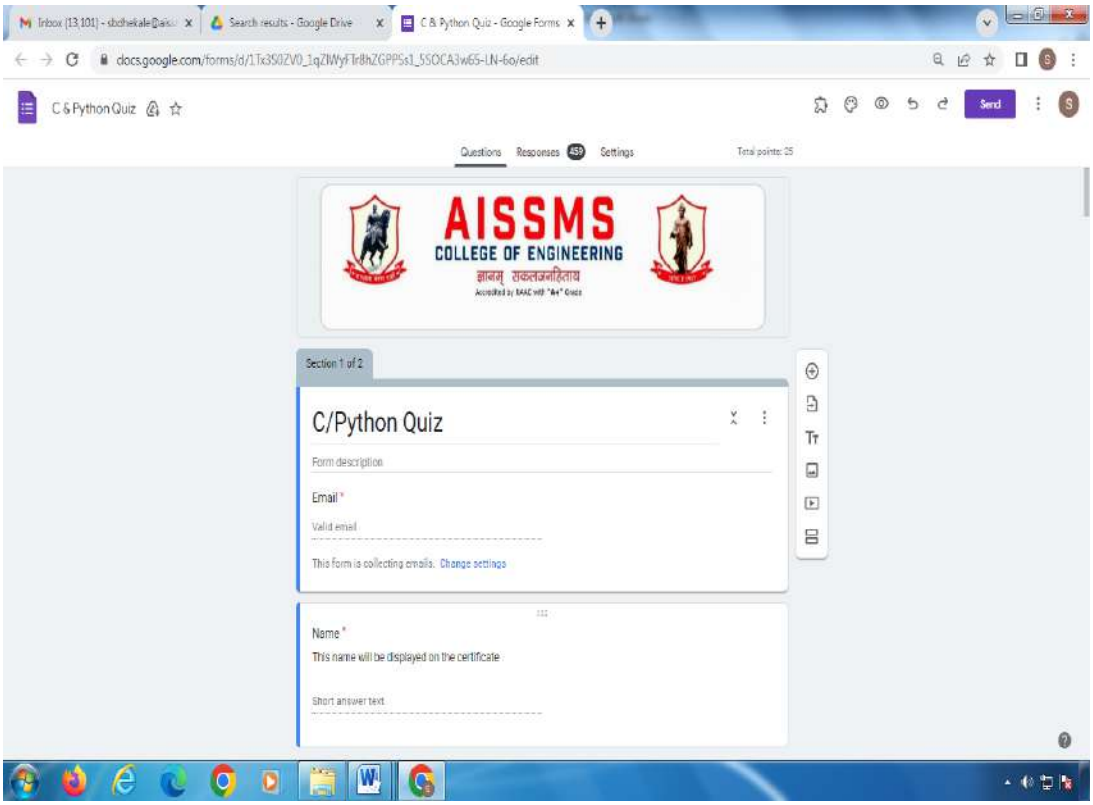


Figure: 2.2.1.6 Online Quiz

2. Collaborative Learning: This is implemented by forming student teams working jointly to solve a problem, complete a task/project, participate in debates or design a product.

3. Cooperative Learning: The department also focuses on cooperative learning methodologies. Students work together to maximize their own and each other's learning capabilities within the student chapters and also while performing various activities like think-pair-share, round table techniques, etc.

4. Peer Led Team Learning: Institute provides an environment for students to engage in intellectual discussions and work in team for problem-solving under the guidance of a peer leader to perform various activities.

Figure: 2.2.1.7 Peer Led Team Learning

5. Experiential learning: Field based experiential learning like Internship, practicum, service learning and class based experiential learning like role plays, games, case studies, simulation, virtual lab, presentations are practiced.

Figure: 2.2.1.8 VLab Simulation

Effective course deliveries:

ICT Usage:

Students are provided with knowledge and proficiency in the usage of simulation software like Matlab, Protues, Multisim, Powersim etc. Study material is also shared with students through Google Classrooms, WhatsApp groups, ERP and MOODLE. Students are asked to enroll for Swayam, NPTEL courses, Spoken tutorials.

Following ICT are being used in the Department:

- Digital Social Learning
- Smart Board
- Lecture Capture System
- Online Quiz
- Google Classroom
- V-Labs
- You tube Channel
- Digital Library
- Spoken Tutorial

Course File:

Each faculty prepares a course file for each course that he/she is allotted to teach before 15 days of start the semester. Course file contains course details, Vision and Mission of Department, Programme Educational Objectives, Programme Outcomes, Programme Specific Outcomes, Course Outcomes, Evaluation Scheme, Teaching-Learning Pedagogy which is to be applied such as chalk/talk, link address for course materials and additional relevant information, academic calendar, Teaching Plan having date, topic, learning outcomes of each topic, Entire syllabus, List of e-books, List of NPTEL,MOOC,SWAYAM Courses/Videos, List of topics beyond the syllabus, List of mini- projects/projects, List of technical trainings and additional information.

ONLINE TEACHING AT AISSMS COE PUNE (During Covid pandemic):

Lockdown due to COVID 19 had not stopped teaching learning process at AISSMS COE. Systematic efforts have been put in for initiating and implementing the teaching-learning through online platform**.**

The immediate transition from conventional to Online, made the faculties to rely on available ZOOM platform to conduct different webinars, FDP and the pending teaching learning activities. Other options like Google classroom, Whatsapp, telegram were also used. For academic year 2020-21 and 2021-22 Term I, institute has used Microsoft Teams platform for online teaching.

For effective implementation of teaching learning through MS teams following steps were observed:

1. Awareness sessions for the use of MS teams were conducted at institute level by delegates from Microsoft
2. Review through survey was taken to understand the availability of internet and other facilities for students.
3. For individual faculty and student, MS team login credentials were generated.
4. Class wise Teams were allocated and respective channels were assigned for theory and practical
5. Time-table for conducting theory and practical was prepared owing to the curriculum requirement and scheduled on MS team accordingly.
6. For every class, daily four theory classes of 60 minutes each and one practical session for 60 minutes each were allotted. Tutorials, Seminars & Project were also scheduled and executed through online mode.
7. Unit wise tests and assignments were conducted through MS team platform. Assessment of tests and assignments also were carried through MS teams.
8. Study material like subject notes, PPTs, e books, previous question papers, unit-wise MCQs were made available on MS team. Other LMS platforms were also used like Google Classroom, CANVAS etc
9. Recorded videos on MS teams were also shared with students to compensate the academic loss of students because of power failure and network connectivity.
10. Demonstrations of experimental set, equipment, observation were recorded and made available for ready reference to students on the Microsoft teams. Suitable Virtual Lab sessions were identified for different domains and subjects and demonstrated to students.
11. Mentoring meetings were conducted by every faculty on MS teams, as per schedule to address various concerns of students related to academics and to boost the confidence of student and his family undergoing the pandemic stress.
12. Training sessions on virtual labs also have been conducted by institute for institute faculty and university faculty as well. In fact, that initiative was very well appreciated by university authorities and faculty from other institutes.

13. Academic Monitoring and the adequacy was ensured through weekly review sheets being circulated through Google forms

14. Besides Academics, Expert Talks, Panel Discussion, Virtual Tour, Alumni Interaction, FDP, Traditional Day, BE Farewell, Women's Day, Startups, Entrepreneurship development, NSS activity etc, were executed online to provide students technical, co-curricular, extracurricular exposure.

15. Also the administrative meetings by the head of Institute, the department meetings by the respective department heads were conducted both online and offline following all the covid appropriate behavioral norms time to time.

16. The Institute and the respective departments in cooperation with the AISSM Society management, have put in

17. All possible efforts to ensure smooth conduction of academics, safeguarding the Students, Faculties,

18. Administrative and support staff during the worldwide pandemic and the National Lockdown

C: Methodologies to support weak students and encourage bright students

A class is a blend of all cadres of students, some of the students having extraordinary learning can be called as advanced learner. Some students may lack these abilities in them called slow learners. The role of the teacher is to identify such students in classrooms sessions. (LAb
Some students need guidance and some of them require hard work and extra attention. This ability in students may vary from subject to subject so we may find variation in advanced and slow learners.

Overall purpose of the identification is only to improve their academic and overall performance.

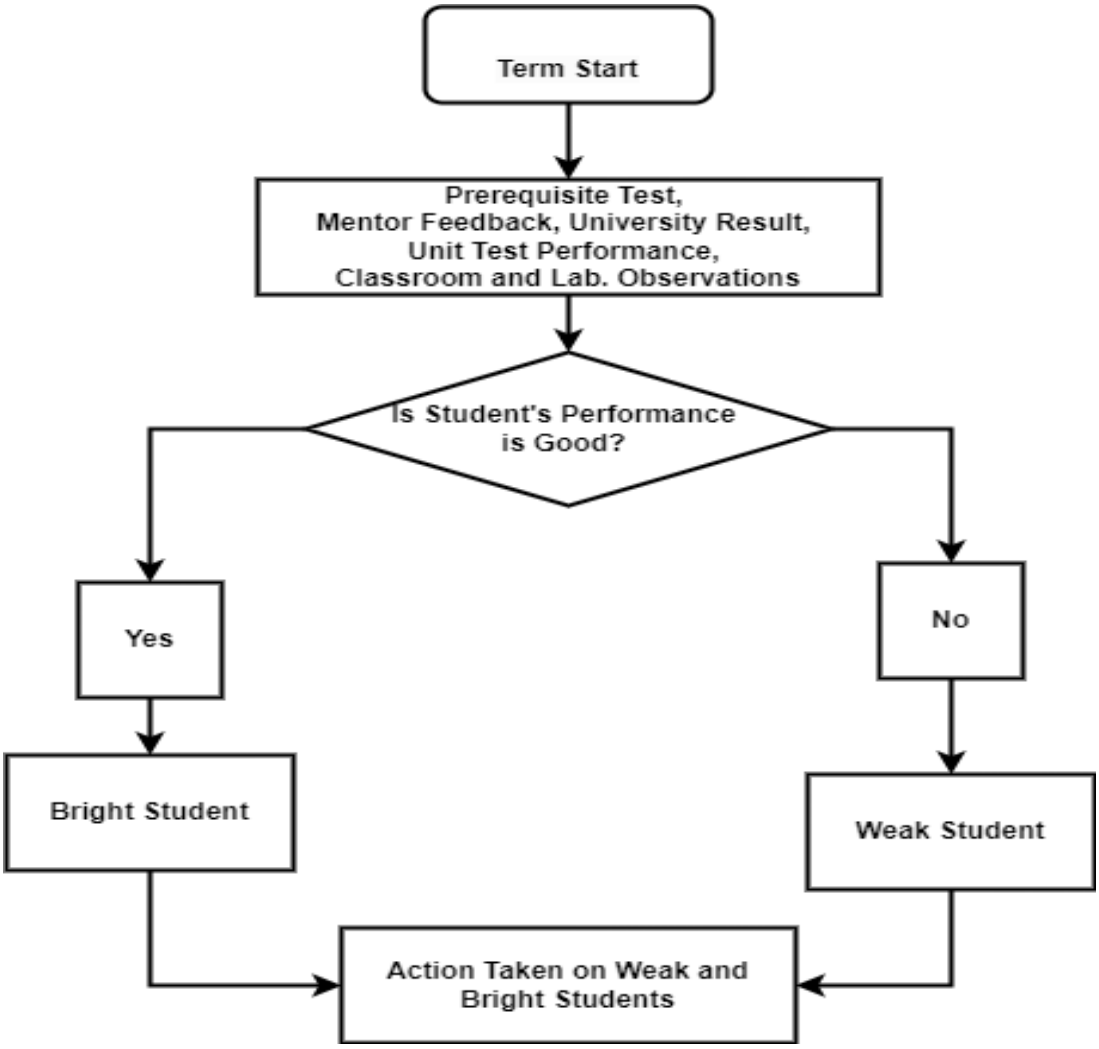


Figure. 2.2.1.9 Bright and Weak Students Identification

Criteria/ Parameters to identify slow and bright Students:

1. Prerequisite test conducted on every subject at the beginning of semester
2. Previous Year University results of related subjects
3. Mentor observations
4. Unit test performance
5. Observations in classroom and laboratory sessions by subject teacher

Process for identify slow and bright Students:

1. Assessment of prerequisite test result of each subject conducted at the beginning of each semester
2. After first unit of respective subject
3. Incorporate previous examination result of the students

4. Mentor feedback
5. After all parameter prepare list of advanced and slow learner for respective subject.

Activities identified for Bright Students:

- Encouragement to register for SWAYAM courses
- Induction in various students Clubs
- Paper publication and presentation
- Workshop/Seminar on current trends
- Participation in university, national level Competitions like Avishkar, Hackathon etc.

Impact Analysis

- Participation in Technical Events
- Participation in Conferences
- Taking up the real time projects

Activities Weak Students:

- Remedial /Make-up/ Extra/ lectures and Extra practical
- Re-test for improvement
- Extra practical sessions
- Counseling – special hints & techniques
- Question bank
- Guidance for Seminar/Project presentation

Impact Analysis:

- Improvement in academic performance of students
- Active participation of the students in various programs

D: Quality of classroom teaching (Observation in a Class)

- Classrooms in the institute are well designed to offer best learning environment
- The classrooms are equipped with LCD projectors and internet connection

- There is also a dedicated classroom having attached a Smart Board to enhance effective delivery of teaching learning process.
- Faculty reaches the class room in time, revise the previous class portions, ask questions and then commence the successive topic.
- Video lectures of NPTEL, Swayam, YouTube etc. of respective courses are shared with students by faculty
- Emphasis is given on logical learning wherein real-life examples related to application, analysis, synthesis and evaluation/ creation are given to the students so that their learning will be fruitful.

F: Conduct of experiments (Observation in Lab)

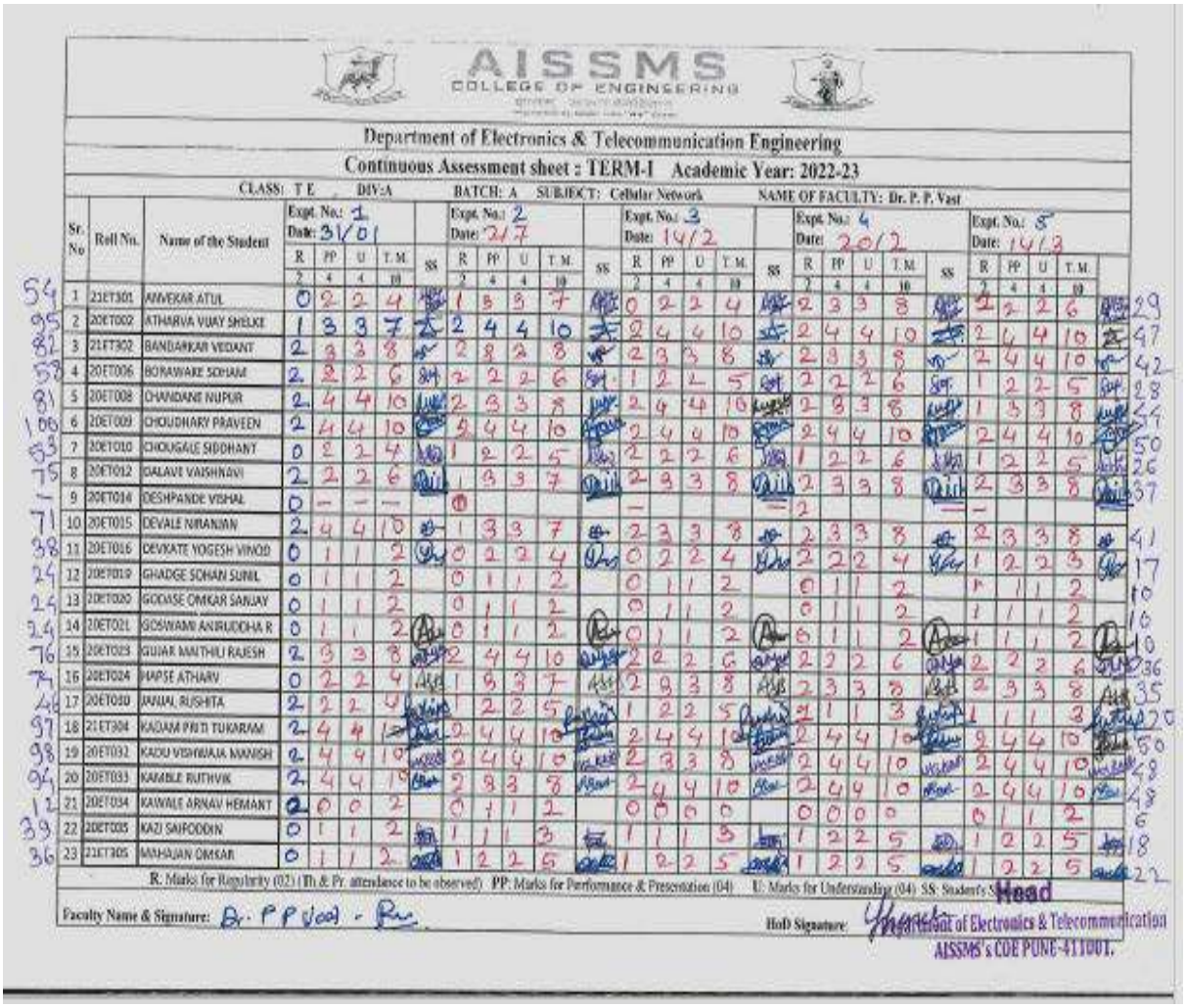
Laboratory manual is prepared by respective subject teacher and provided to the students before performing the experiments. Faculty member and a technical staff are always present to help the students to perform the experiments. To ensure the quality of conduct of laboratory classes in the Department, a concern Laboratory in charge ensure readiness of laboratory. Head of Department takes runtime corrective measures to ensure quality of experiments. Continuous evaluation of each laboratory experiment is done based on the following parameters.
Students performance during the laboratory session is assessed by the teacher and maintain records in continues Assessment sheet (CAS)
Lab Manuals
Equipment Manuals
Lab Manual: List of Experiments and new experiments added
Log book record
Lab Maintenance
CAS

F: Continuous Assessment in the laboratory (3)

Faculty member give marks to each student depending on his/her performance during lab session. After very experiment teacher used to take viva of students.

The Department gives more importance and believes in continuous improvement principle.

- Continuous Assessment (CAS) is used by each teacher to evaluate students' performance in experiment conduction and continuous improvement
- Standard CAS Sheet is used by teacher
- The students' performance assessment in the CAS sheets is based on the parameters as attendance, involvement, understanding and timely submission of the experiment



AISSMS COLLEGE OF ENGINEERING

Department of Electronics & Telecommunication Engineering

Continuous Assessment sheet : TERM-I Academic Year: 2022-23

CLASS: T E DIV:A BATCH: A SUBJECT: Cellular Network NAME OF FACULTY: Dr. P. P. Vast

Sr. No	Roll No.	Name of the Student	Expt. No.: 1 Date: 31/01 R	PP	U	T.M.	SS	Expt. No.: 2 Date: 21/7 R	PP	U	T.M.	SS	Expt. No.: 3 Date: 14/2 R	PP	U	T.M.	SS	Expt. No.: 4 Date: 20/2 R	PP	U	T.M.	SS	Expt. No.: 5 Date: 14/3 R	PP	U	T.M.
			2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10
1	21ET301	ANVEKAR ATUL	0	2	2	4		1	3	3	7		0	2	2	4		2	3	3	8		2	2	2	6
2	20ET002	ATHARVA VIJAY SHELKE	1	3	3	7		2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10
3	21ET302	BANDARKAR VEDANT	2	3	3	8		2	3	3	8		2	3	3	8		2	3	3	8		2	4	4	10
4	20ET006	BORAWAKE SOHAM	2	2	2	6		2	2	2	6		1	2	2	5		2	2	2	6		1	2	2	5
5	20ET008	CHANDANE NUPUR	2	4	4	10		2	3	3	8		2	4	4	10		2	3	3	8		1	3	3	8
6	20ET009	CHOUDHARY PRAVEEN	2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10
7	20ET010	CHOUGALE SIDDHANT	0	2	2	4		1	2	2	5		2	2	2	6		1	2	2	6		1	2	2	5
8	20ET012	GALAVE VAISHNAVI	2	2	2	6		1	3	3	7		2	3	3	8		2	3	3	8		2	3	3	8
9	20ET014	DESHPANDE VISHAL	0	–	–	–		0					–					2					–			
10	20ET015	DEVALE NIRANJAN	2	4	4	10		1	3	3	7		2	3	3	8		2	3	3	8		2	3	3	8
11	20ET016	DEVKATE YOGESH VINOD	0	1	1	2		0	2	2	4		0	2	2	4		2	2	2	4		1	2	2	5
12	20ET019	GHADGE SOHAN SUNIL	0	1	1	2		0	1	1	2		0	1	1	2		0	1	1	2		1	1	1	2
13	20ET020	GODASE OMKAR SANJAY	0	1	1	2		0	1	1	2		0	1	1	2		0	1	1	2		1	1	1	2
14	20ET021	GOSWAMI ANIRUDDHA R	0	1	1	2		0	1	1	2		0	1	1	2		0	1	1	2		1	1	1	2
15	20ET023	GUJAR MAITHILI RAJESH	2	3	3	8		2	4	4	10		2	2	2	6		2	2	2	6		2	2	2	6
16	20ET024	JAGPSE ATHARV	0	2	2	4		1	3	3	7		2	3	3	8		2	3	3	8		2	3	3	8
17	20ET030	JAIAL RUSHITA	2	2	2	6		2	2	2	6		1	2	2	5		1	1	1	3		1	1	1	3
18	21ET304	KADAM PRITI TUKARAM	2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10		2	4	4	10
19	20ET032	KADU VISHWAJA MANISH	2	4	4	10		2	4	4	10		2	3	3	8		2	4	4	10		2	4	4	10
20	20ET033	KAMBLE RUTHVIK	2	4	4	10		2	3	3	8		2	4	4	10		2	4	4	10		2	4	4	10
21	20ET034	KAWALE ARNAV HEMANT	2	0	0	2		0	1	1	2		0	0	0	0		0	0	0	0		0	1	1	2
22	20ET035	KAZI SAIFODDIN	0	1	1	2		1	1	1	3		1	1	1	3		1	2	2	5		1	2	2	5
23	21ET305	MAHAJAN OMKAR	0	1	1	2		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 S

Faculty Name & Signature: Dr. P P Vast - Pv

HoD Signature:

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

Figure. 2.2.1.10 Continues Assessment Sheet (CAS)

G: Student feedback of teaching learning process and actions taken (6)

Student feedback on class room and Laboratory teaching are taken twice in a semester on ERP. Student's feedback is circulated to respective faculty by the HOD.

Feedback Analysis Process:

- The suggestions are analyzed by the concerned HOD. Every question has a weightage up to 10 points. Based on the average points accrued for all the questions the faculty performance level is assessed.
- The teacher is subjected for any corrective measures as decided by Head of the Department.
- Performance rating of faculty through the student feedback system is one of the factors in evaluating the annual performance appraisal of the faculty.

- Based on the feedback received from the students the faculty is rewarded by issuing a letter of appreciation from the Head of the Department.

The parameters for performance assessment are as follows

- Has teacher cover entire syllabus as prescribed by university
- Has teacher cover relevant topics beyond syllabus
- Effectiveness of teacher in terms of course content, communication skill.
- Pace on which contents were covered
- Motivation and inspiration for students to learn
- Support for development of student skill practical demonstration, hands on training.
- Clarity of expectations of students.
- Feedback provide on students' progress
- Willing to offer help and advice to students

Feedback Rating:

1. Not satisfactory
2. Satisfactory
3. Good
4. Very good
5. Excellent

AISSMS
COLLEGE OF ENGINEERING

Department of Electronics and Telecommunication Engineering

Date

To,
MS. VIDYA VIJAY DESHMUKH
ASSISTANT PROFESSOR

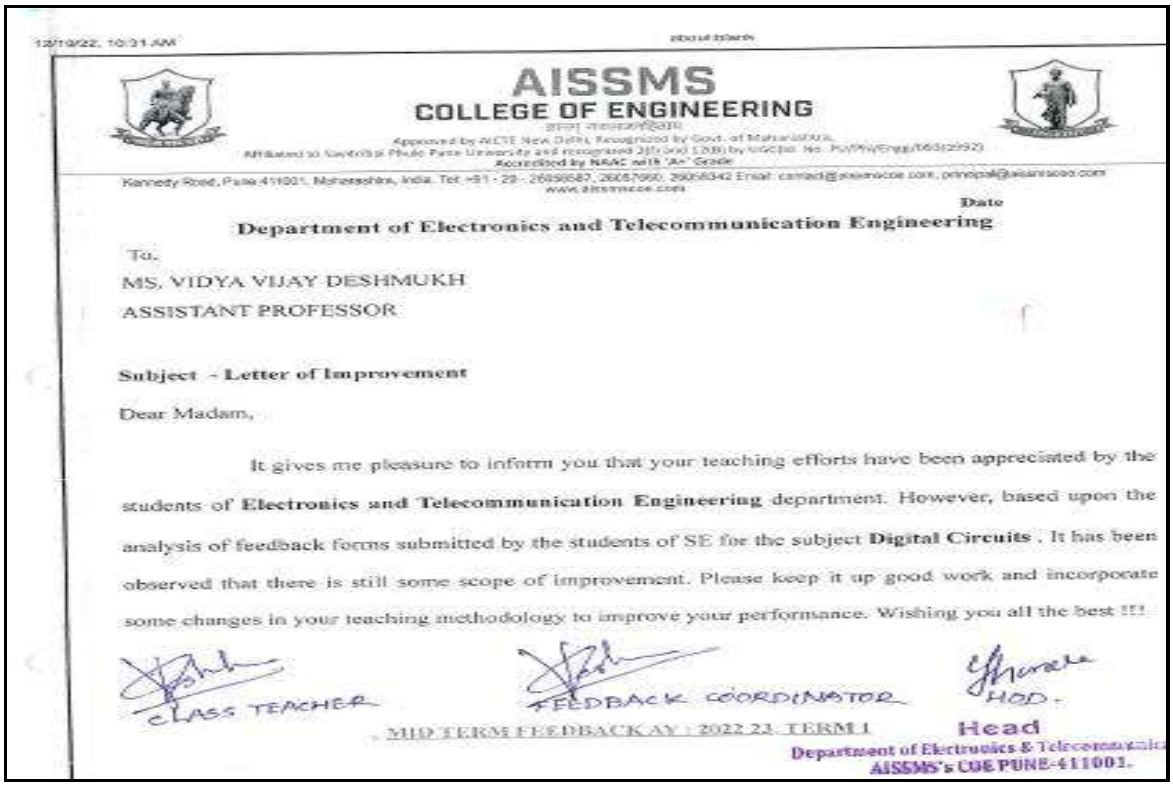
Subject - Letter of Appreciation

Dear Madam,

It gives me immense pleasure to congratulate you on the behalf of **Electronics and Telecommunication Engineering** department based upon the analysis of feedback forms submitted by the students of **SE** for the subject **Digital Circuits** . 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

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



AISSMS
COLLEGE OF ENGINEERING

Department of Electronics and Telecommunication Engineering

Date

To,
MS. VIDYA VIJAY DESHMUKH
ASSISTANT PROFESSOR

Subject - Letter of Improvement

Dear Madam,

It gives me pleasure to inform you that your teaching efforts have been appreciated by the students of **Electronics and Telecommunication Engineering** department. However, based upon the analysis of feedback forms submitted by the students of SE for the subject **Digital Circuits** . It has been observed that there is still some scope of improvement. Please keep it up good work and incorporate some changes in your teaching methodology to improve your performance. Wishing you all the best !!!

CLASS TEACHER | FEEDBACK COORDINATOR | HOD.

MID TERM FEEDBACK AY : 2022-23 TERM I

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

Figure. 2.2.1.11 Students Feedback Report

AISSMS COE, PUNE
DEPARTMENT OF E&TC ENGINEERING

FACULTY FEEDBACK SUMMARY
ACADEMIC YEAR: 2022-23 , SEMESTER: I

Sr No	Name Of The Faculty	Class	Subject	Th/PR	Mid Sem	End Sem	Remarks	Signature
1	Dr D S Bhalke	BE (E&TC)	RMT	TH	85		good	
		BE (E&TC)	RMT	PR	88			
2	Dr S B Dhonde	TE(E&TC)	CN	TH	84		good	[signature]
		TE(E&TC)	CN	PR	81			
		BE (E&TC)	RMT	TH	80	85		
		BE(E&TC)	RMT	PR	82	85		
2	Ms K R Chaudhari	SE (E&TC)	DS	TH	75	76	satisfactory	[signature]
		SE (E&TC)	DS	PR	76	77		
		BE(E&TC)	DL	TH	92	93		
3	Mr S B Lihekale	TE(E&TC)	Java	TH	89	93	feedback improved by comparing with previous term (good)	[signature]
		TE(E&TC)	Java	PR	92	94		
		BE(E&TC)	Ajava	TH	87	87		
		BE(E&TC)	Ajava	PR	88	90		
4	Mr N P Mawale	TE(E&TC)	Skill Development	PR	77	80	Good	[signature]
		BE (E&TC)	VLSI	TH	86	85		
		BE (E&TC)	VLSI	PR	87	87		
5	Dr P P Vaidya	TE(E&TC)	Microcontroller	TH	86	89	Good	[signature]
		TE(E&TC)	Microcontroller	PR	87	88		
		TE(E&TC)	Skill Development	PR	85	88		
6	Ms V D Nagrale	SE (E&TC)	Skill Development	PR	67	68	for the subject Skill development need to improve	[signature]
		TE(E&TC)	Database Management	TH	90	93		
		TE(E&TC)	Database Management	PR	92	92	Database management very good	
7	Ms V V Deshmukh	SE (E&TC)	Digital Circuits	TH	81	75	Need to improve for Digital circuit and Computer Networks	[signature]
		SE (E&TC)	Digital Circuits	PR	87	79		
		TE(E&TC)	Computer Networks	TH	93	100	very good	
		TE(E&TC)	Computer Networks	PR	91	99		
8	Ms V S [illegible]	SE(E&TC)	Electrical Machines	TH	72	70	need to improve	
		SE(E&TC)	Electrical Machines	PR	73	71		
		SE (E&TC)	Skill Development	PR	74			
9	Ms V P Lad	TE(E&TC)	Digital Communication	TH	87	91	very good	[signature]
		TE(E&TC)	Digital Communication	PR	87	88		
		BE(E&TC)	EPD	TH	89			
10	Ms V R Sawant	SE(E&TC)	Electronic Circuits	TH	75	77	need to improve	
		SE(E&TC)	Electronic Circuits	PR	75	78		
		SE(E&TC)	Skill Development	PR	74	78		
11	Mr R A Itnare	SE(E&TC)	Skill Development	PR	69		Very good	[signature]
		TE(E&TC)	Electromagnetics	TH	91	91		
		TE(E&TC)	Electromagnetics	TUT	90	91		
		BE(E&TC)	MIOT	TH	88			
		BE(E&TC)	MIOT	PR	84			
12	Ms P P Tayade	SE (E&TC)	Digital Circuits	PR	80	71	need to improve for DC	[signature]
		SE (E&TC)	Data Structures	PR	24			
		BE(E&TC)	Cloud Computing	TH	92	89		
		BE(E&TC)	Cloud Computing	PR	91	90		

[signature]
Ms V.V. Deshmukh
(Feed back Coordinator)

Head
Department of Electronics & Telecommunication Engg.
AISSMS's COE PUNE-411001

[signature]
Dr. S. B. Dhonde
HOD (E&TC)

Figure. 2.2.1.12 HoD Remarks on Feedback Report

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester question papers, assignments and evaluation)

A. Process for Internal Semester Question Paper setting and evaluation and effective process implementation:

- Internal class test is conducted for every subject in each semester.
- The question papers are prepared based on course outcomes. Each question is mapped with the corresponding course outcome.
- Questions are framed as per the Blooms levels and performance indicator
- The question papers are verified by the PAQIC ensuring the quality of question papers

B. Process to ensure questions from outcomes/learning level perspectives:

- Each question in the class test is designed to measure any one CO
- The marks gained by each student in each CO for internal assessment component is taken into consideration for the calculation of CO-PO-PSO attainment.
- The class tests and assignments are designed to assist the evaluation of learning levels such as analytical skills, design, logical reasoning and applications.
- The questions in the test and assignments are reviewed by module coordinators and PAQIC

C. Evidence of COs Coverage in Continuous Internal Assessments Examination:

- Process of Setting of question paper, evaluation and effective process implementation by PAQIC
- In PAQIC meeting Guidelines are set for unit test papers as per instructions from Institute level Academic Coordinator. Blooms Taxonomy & Course outcomes are taken into account.
- Question paper Format approved by PAQIC is circulated to all course teachers.
- Question papers for all courses are checked by Module coordinator.
- In case of some modifications needed, those question papers are reverted back to concerned course teacher for revision.

- After approval by Module coordinator question papers are forwarded to HOD for approval.
- After HOD's Approval Question papers are floated to particular class during examination.
- Assessment of answer sheets is done by respective course teacher.
- Result of examination is communicated to students.
- In case of any query, student contact corresponding course teacher to clarify their doubts
- Examination record (Question Paper, Model Answer sheet, Marksheet & Sample sheets) is submitted to Department Examination Coordinator.

AISSMS COLLEGE OF ENGINEERING

Department of Electronics & Telecommunication Engineering

Unit Test: I

Subject Name:	Cloud Computing	Time	1 Hr
Class:	BE E&TC	Academic Year:	2022-23
Total Marks:	30	Sem:	I

Q. No.	Question	Marks	CO	BL	PI
1. a)	What is Cloud Computing? Explain Characteristics and benefits of it in detail.	5	CO1	L1	6.1.1, 7.1.2
b)	Explain NIST Cloud architecture in detail.	5	CO1	L1	6.1.1, 7.1.2
c)	Describe all cloud stack in brief.	5	CO1	L1	6.1.1, 7.1.2
	OR				
Q2.a)	Illustrate all deployment model of cloud in detail.	5	CO1	L1	2.2.4
b)	Define and recite Cloud Cube model in detail.	5	CO1	L1	6.1.1, 7.1.2
c)	Explain basic architecture of cloud in detail.	5	CO1	L1	6.1.1, 7.1.2
Q3. a)	Describe Software as a Service "SAAS" cloud computing.	5	CO2	L1	2.4.4
b)	Illustrate Infrastructure as a Service "IAAS" cloud computing.	5	CO2	L1	2.4.4
c)	Compare SAAS, PAAS and IAAS.	5	CO2	L2	2.2.4
	OR				
Q4.a)	Recite Platform as a Service "PAAS" cloud computing.	5	CO2	L1	2.4.4
b)	Summarize Identity and Network as a Service of cloud computing.	5	CO2	L2	2.4.4
c)	Summarize cloud services and their benefits and characteristics.	5	CO2	L2	6.1.1, 7.1.2

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 – Creating)
CO – Course Outcomes
PO – Program Outcomes;
PI Code – Performance Indicator Code

DAC

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

Figure. 2.2.2.1 Unit Test Question Paper

AISSMS
COLLEGE OF ENGINEERING
Accredited by NAAC with "A++" Grade

Department of Electronics & Telecommunication Engineering

BE Unit Test-I Schedule 2022-23, Sem-I

Sr. No.	Subject	Day/Date	Time
1.	Cloud Computing	Monday, 22/08/2022	08.30am to 09.45am
2.	E-4: Deep Learning/ Electronic Product Design	Tuesday, 23/08/2022	08.30am to 09.45am
3.	VLSI Design and Technology	Wednesday, 24/08/2022	08.30am to 09.45am
4.	E-3: Java Script/ Modernized IOT	Thursday, 25/08/2022	08.30am to 09.45am
5.	Radiation and Microwave Theory	Friday, 26/08/2022	08.30am to 09.45am

Mrs. Y. P. Lad
Exam Coordinator

Mr. S. B. Dhekale
DAC

Dr. D. G. Bhalke
HOD
Head
Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.

Figure. 2.2.2.2 Unit Test Time Table

Figure. 2.2.2.3 Class Test

D. Quality of evaluation:

The evaluation class tests and assignments are performed by using rubrics defined in PAQIC. Quality of evaluation is ensured by the PAQIC and Institute academic coordinator for each course through checking the sample answer sheets. The samples of answer sheets are maintained in course file.

Table 2.2.2.1: Rubrics for Internal Exam

Sr. No.	**Excellent**	**Good**	**Fair**	**Needs Improvement**
Category	4	3	2	1
Mathematical / Technical/ Descriptive Error	90-100% steps and solution have no mathematical / Technical/ Descriptive error	85-89% steps and solution have no mathematical / Technical/ Descriptive error	75-84% steps and solution have no mathematical / Technical/ Descriptive error	More than 75% of steps and solution have mathematical / Technical/ Descriptive error
Neatness	Explanation is detailed and clear	Explanation is clear	Explanation is difficult to understand but includes critical component	Explanation is difficult to understand and do not include critical component
Organization	The work appears in neat, clear, and organised fashion and is easy to read	The work appears in neat and organised fashion and is easy to read	The work appears in organised fashion, but many be hard to read at times	The Work appears unorganised and hard to know what information goes together
Diagram	Neat and Clean by using geometrical tools	Neat and Clean by but not used geometrical tools	Drawn but not readable	Incomplete diagram

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

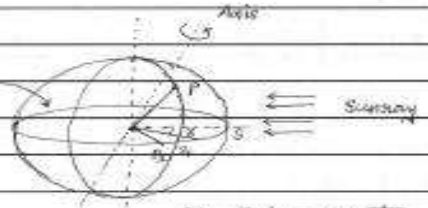
Supervisor's Signature

Name ARINDAM PAL Roll No.: 18ETD04
Subject RENEWABLE ENERGY SYSTEM Division : BE ENTC
Examination UNIT TEST 2 Day & Date : 28/05/2022

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

Examiner Signature

Q1.



1) Altitude angle (α)
α represents the angle b/w the sun rays and the projection of sunrays on horizontal plane. α is zero at sunrise & sunset.

2) Zenith angle (θ_z)
It represents angle of incidence for horizontal surface.

3) Hour angle (ω)
ω represents the position wrt clock hour and with reference to sun's position at 12 noon. It is constant & equal to 15°/hr.

4) Latitude angle (ϕ)
ϕ is vertical angle b/w the line joining the point of location on Earth to center of Earth. It is 0° at equator & at (+90°) North pole, (-90°) south pole.

5) Declination angle (δ)
δ in angle made between the line joining the sun to Earth and its projection on the equatorial plane.

$$\delta = 23.45 \sin\left[\frac{360}{365}(284 + n)\right]$$

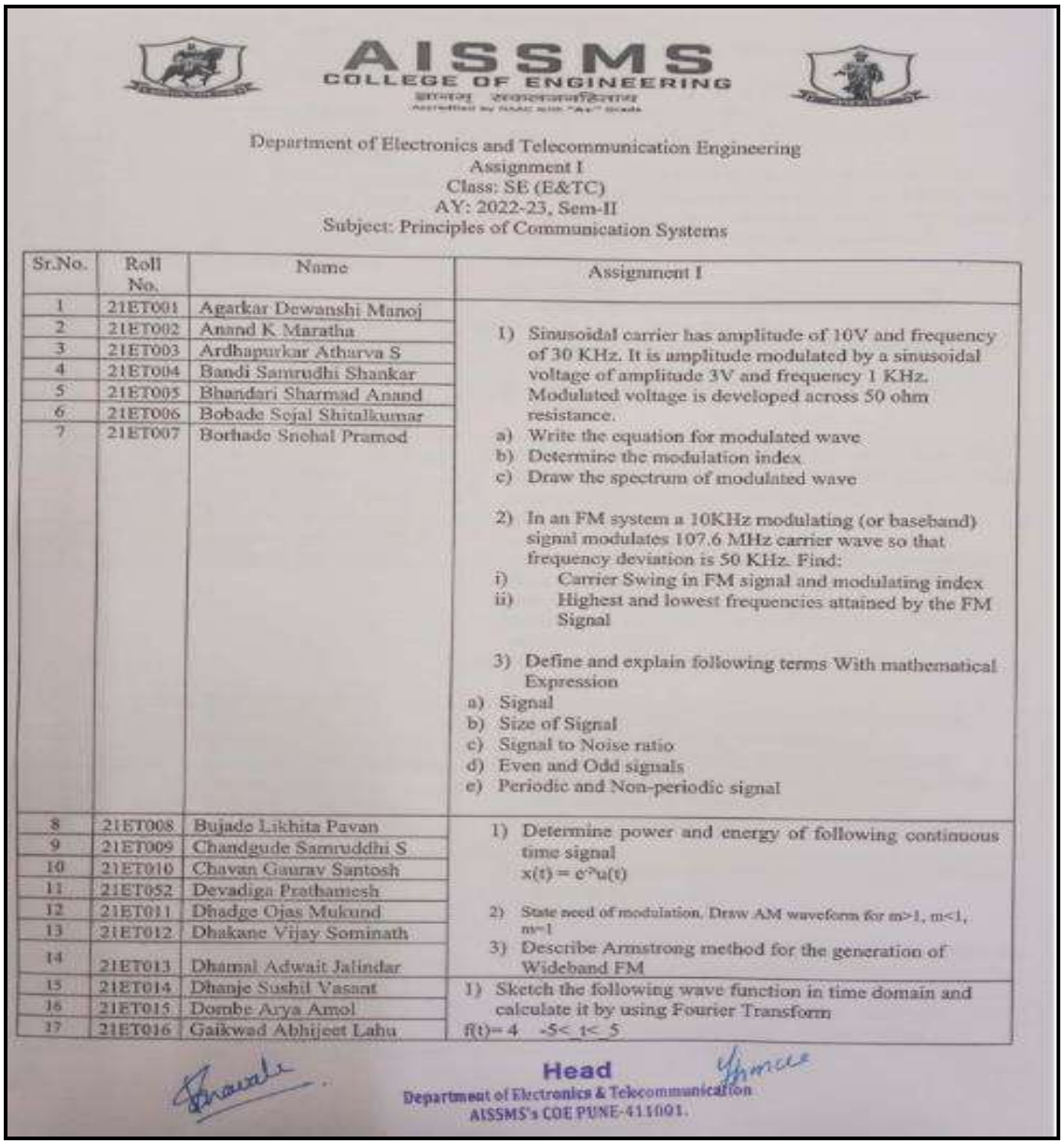
Figure. 2.2.2.4 Unit Test Answer Sheet

E: Quality of Assignment:

Assignment is one of the internal assessment components in each subject. Two assignment questions are given in group of five students. Assignment questions include real time and complex analytical problems. The questions are framed in such a way to encourage self-learning habit of students. It also ensures that the students refer different books to answer the questions. Assignments are assessed according to defined rubrics and marking scheme. Assessment marks are conveyed to the students by subject teacher for further improvement if necessary.

Table 2.2.2.2: Rubrics for Assignment:

Sr. No.	Excellent	Good	Fair	Needs Improvement
Category	4	3	2	1
Mathematical / Technical/ Descriptive Error	90-100% steps and solution have no mathematical / Technical/ Descriptive error	85-89% steps and solution have no mathematical / Technical/ Descriptive error	75-84% steps and solution have no mathematical / Technical/ Descriptive error	More than 75% of steps and solution have mathematical / Technical/ Descriptive error
Neatness	Explanation is detailed and clear	Explanation is clear	Explanation is difficult to understand but includes critical component	Explanation is difficult to understand and do not include critical component
Organization	The work appears in neat, clear, and organised fashion and is easy to read	The work appears in neat and organised fashion and is easy to read	The work appears in organised fashion, but many be hard to read at times	The Work appears unorganised and hard to know what information goes together
Timely Submission	If submitted on time	Delayed by a day	Delayed more than a day	Submitted at the end of Semester
Diagram	Neat and Clean by using geometrical tools	Neat and Clean by but not used geometrical tools	Drawn but not readable	Incomplete diagram



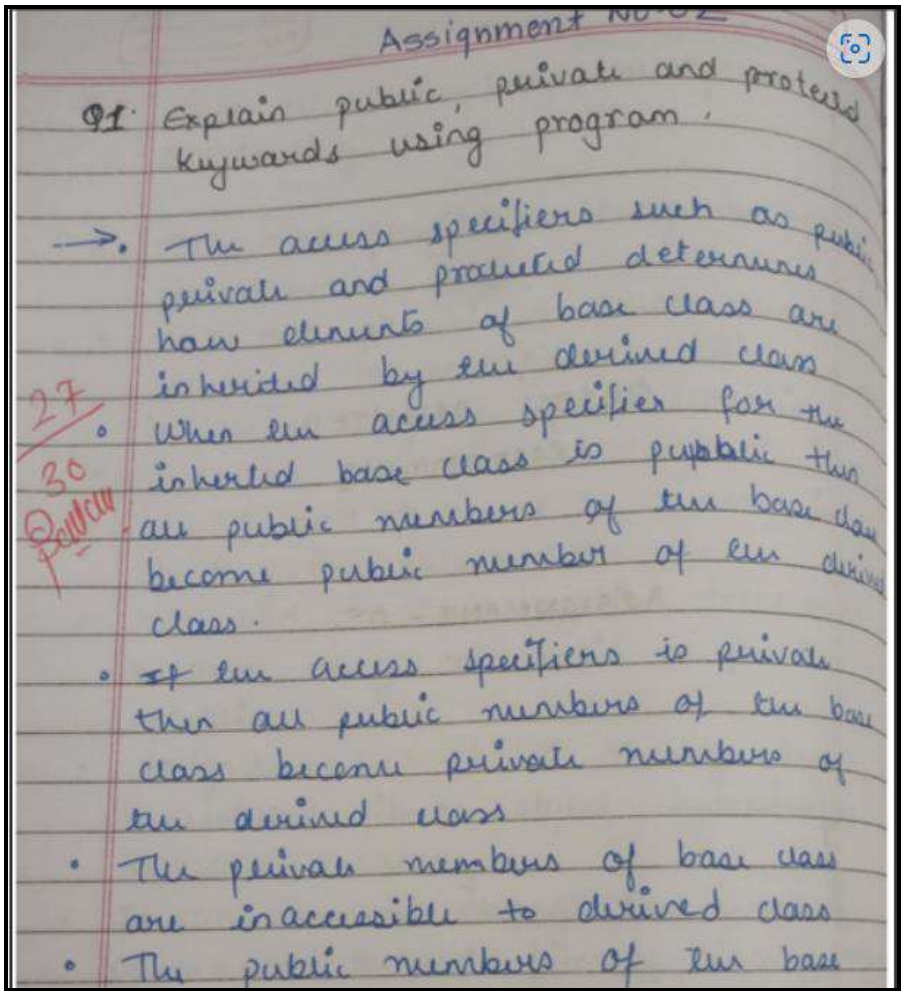
AISSMS
COLLEGE OF ENGINEERING

Department of Electronics and Telecommunication Engineering
Assignment I
Class: SE (E&TC)
AY: 2022-23, Sem-II
Subject: Principles of Communication Systems

Sr.No.	Roll No.	Name	Assignment I
1	21ET001	Agarkar Dewanshi Manoj	1) Sinusoidal carrier has amplitude of 10V and frequency of 30 KHz. It is amplitude modulated by a sinusoidal voltage of amplitude 3V and frequency 1 KHz. Modulated voltage is developed across 50 ohm resistance. a) Write the equation for modulated wave b) Determine the modulation index c) Draw the spectrum of modulated wave 2) In an FM system a 10KHz modulating (or baseband) signal modulates 107.6 MHz carrier wave so that frequency deviation is 50 KHz. Find: i) Carrier Swing in FM signal and modulating index ii) Highest and lowest frequencies attained by the FM Signal 3) Define and explain following terms With mathematical Expression a) Signal b) Size of Signal c) Signal to Noise ratio d) Even and Odd signals e) Periodic and Non-periodic signal
2	21ET002	Anand K Maratha	
3	21ET003	Ardhapurkar Atharva S	
4	21ET004	Bandi Samrudhi Shankar	
5	21ET005	Bhandari Sharmad Anand	
6	21ET006	Bobade Sejal Shitalkumar	
7	21ET007	Borhade Snehal Pramod	
8	21ET008	Bujade Likhita Pavan	1) Determine power and energy of following continuous time signal x(t) = e^u(t) 2) State need of modulation. Draw AM waveform for m>1, m<1, m=1 3) Describe Armstrong method for the generation of Wideband FM
9	21ET009	Chandgude Samruddhi S	
10	21ET010	Chavan Gaurav Santosh	
11	21ET052	Devadiga Prathamesh	
12	21ET011	Dhadge Ojas Mukund	
13	21ET012	Dhakane Vijay Sominath	
14	21ET013	Dhamal Adwait Jalindar	
15	21ET014	Dhanje Sushil Vasant	1) Sketch the following wave function in time domain and calculate it by using Fourier Transform f(t)= 4 -5< t< 5
16	21ET015	Dombe Arya Amol	
17	21ET016	Gaikwad Abhijeet Lahu	

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

Figure. 2.2.2.6 Sample Assignment



Assignment

Q1. Explain public, private and protected keywords using program.

→ • The access specifiers such as public, private and protected determines how elements of base class are inherited by the derived class

• When the access specifier for the inherited base class is public then all public members of the base class become public member of the derived class.

• If the access specifiers is private then all public members of the base class become private members of the derived class

• The private members of base class are inaccessible to derived class

• The public members of the base

Figure. 2.2.2.7 Solved Assignment

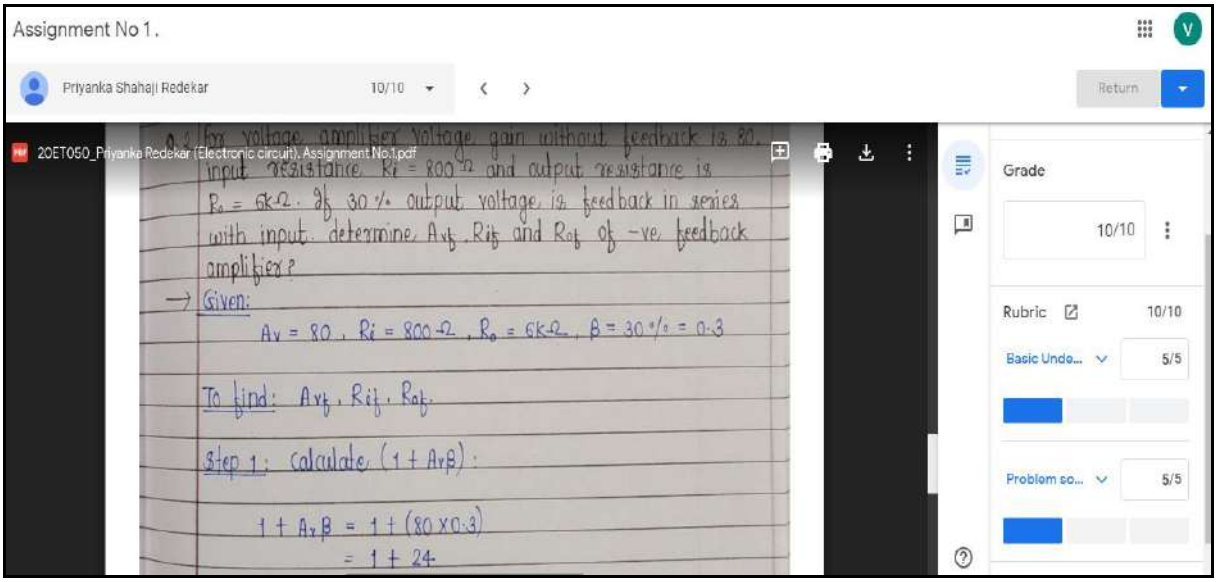


Figure. 2.2.2.8 Online Submitted Assignment

2.2.3. Quality of student projects (25)

A. Projects identification and guide allocation Process

1. Project Process is initiated within 15days from commencement of the VII semester
2. Orientation session is organized for the students by HOD and Project Coordinator. Following points are discussed with the students.
   - Guidelines for selection of Project.
   - Phases involved in project development
   - Overview of project Evaluation
3. Previous 3 years' project list is displayed and projects reports are made available in department library for student reference.
4. Students are given choice in finalizing the projects. They may opt for sponsored projects or in-house projects or extension of mini projects/ internships.
5. Students are asked to submit the names of students in the group along with the domain of interest within one week after the orientation.
6. After submission of domain, guide is allocated by the project committee on the basis of area of interest of guide.
7. Students discuss and finalize the title, objectives, scope of project with the assigned project guide.
8. Project evaluation committees are formed. Project guide is one of the committee members.
9. Problem statement and title are presented by the students in front of the committee. Committee gives suggestions in finalizing the title, scope, and objectives based on feasibility of the project, market, and literature survey.
10. Students submit the project synopsis with the approval of guide.

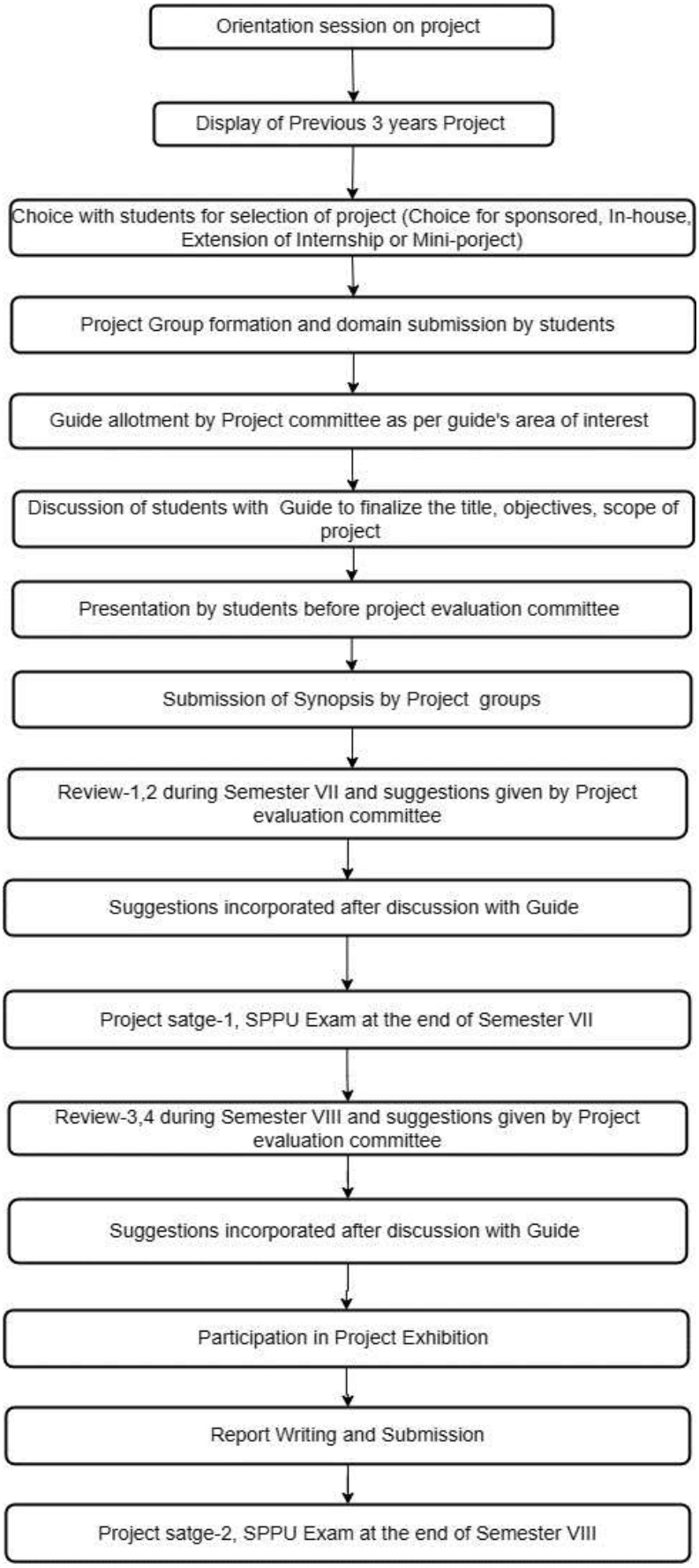


Fig 2.2.3.1: Project Process for Identification, Allocation and Evaluation

B. Types and relevance of the projects and their contribution towards attainment of POs

Students are motivated to come up with innovative ideas to solve real world problems. The projects are classified on the basis of environment, safety, ethics, agriculture, societal and type like application, product, research, review etc. As every project has its own characteristics and requirement, this classification helps to ensure the suitable strategies and methodologies that is applied to achieve successful outcomes and quality of the projects.

POs such as Engineering knowledge, Problem Analysis, Design, investigation, Modern tools usage, team work, Ethics and Environmental issues are attained through final year projects. Each project is internally and externally evaluated and the project course outcomes are mapped with program outcomes and program specific outcomes. The internal evaluation and SPPU examination evaluation is considered for attainment of POs and PSOs.

The projects are assessed on basis of Depth of Knowledge, Literature survey, Methodology adopted, Modern tool usage, Impact on societal needs, Novelty of work, Team work, Presentation skills and documentation.

Table:2.2.3.1 Project Classification

A Y 2023-24					
Gr. No	**Sr No**	**Name**	**Guide**	**Tilte**	**Classification**
1	1	Pradnya Bhoskar	Dr R R Itkarkar	PAPYRES-Conference paper management system	Application
	2	Anjali Jagtap			
	3	Akshay Hirave			
2	4	Shradhha Jadhav	DR K B Chaudhari	Examining Anomalies In X-rays Using CNN	Application
	5	Atharva Shelke			
	6	Yash Ravangave			
3	7	Praveen choudhary	Ms. V D Nagrale	Fungus Detection Using Deep Learning	Application
	8	Nitin Tandle			
	9	Maithili Gujar			
4	10	Nupur Chandane	Dr S B Dhonde	Empowering Communication: A Paralysis-Aid Gloveiris with IoT Integration	Product
	11	Priyanka Redekar			
	12	Atharva Kadam			
5	13	Atul Anvekar	Mrs. V S Navale	Trusted Crowdfunding Platform Using Blockchain Technology	Application
	14	Omkar Tanpure			
6	15	Aditya Pawar	Mr. V B Gawai	Iot based battery management system for electric vehicles and battery cooling system.	Product, environment
	16	Siddhi More			
	17	Sakshi Shinde			
7	18	sanika sashte	Mr. N P Mawale	Student Performance Analysis System	Application
	19	rajwee wable			

	20	Krishna mare			
8	21	Mohd Aqib	Mrs. Y P lad	AudioVision: A Helping system for Visually Impaired	Application, Societal
	22	Pramila Sherkhane			
	23	Abhishek Walke			
9	24	Atharv Hapse	Dr. V V Deshmukh	Multiple Interface Configurable Smart IoT Device	Application
	25	Ketaki Nanaware			
	26	Vedant Dhopate			
10	27	Samruddhi Shivarkar	Mrs. V S Navale	IOT based Automatic Waste Segregation System	Application, Societal
	28	Priti Kadam			
	29	Jotsna Sonar			
11	30	Virakshi Birajdar	Dr P P Vast	Smart parking guidance system using wireless sensor network	Application
	31	Priti Sagar			
12	32	Gaurav Londhe	Dr. V V Deshmukh	Expense Tracker	Application
	33	Om Pakale			
	34	Prathamesh Shahapure			
13	35	Atif Shikalgar	Mrs. Y P lad	Aquaculture Water Management	Product, Societal
	36	Zeeshan Shaikh			
	37	Deepesh Chauhan			
14	38	Suraj Mete	Dr S B Dhonde	Real-time Map-Based Pollution Monitoring and Data Management	Application, Societal
	39	Shashiraj Sahani			
	40	Sudhansh Dongare			
15	41	Omkar Mahajan	Dr R R Itkarkar	Wearable health monitoring system for workers	Product, Societal
	42	Vedant Bandarkar			
	43	Ruthvik Kamble			
16	44	Niraj Patil	Dr P P Vast	Development of an efficient LEACH routing protocol encountering wormhole attack in wireless sensor network	Research
	45	Vishweshwar Patil			
	46	Shristi Singh			
17	47	Dhiraj More	Dr K B Chaudhari	Home healthcare system	Application, Societal
	48	Yashraj Shelar			
	49	Anish Jadhav			
18	50	Aditya Sanjay Gujar	Mr. V B Gawai	PrakashRekha	Product, Societal, safety
	51	Manali Jadhav			
	52	Rishi Gandhi			
19	53	Devang Angre	Dr D S Bormane Co-Guide Dr R R Itkarkar	Android Based Food Waste Management System	Application, Societal
	54	Aniket Daddi			
	55	Ajay Atkire			
20	56	Niranjan Devale	Mr. N P Mawale	Solar Base water purification System	Product, Societal
	57	Aniruddha Goswami			

	58	Soham Borawake			
21	59	Atharva vyawahare	Mr. S B Dhekale	Blood Cell Count Detection Using YOLO V5	Application, Societal
	60	Shivam Zinjurde			
	61	Abhay pawar			
22	62	Vishwaja Kadu	Ms. V D Nagrale	Iot-Fog based healthcare framework to identify and control hypertension attack	Application, Societal
	63	Vaishnavi Dalave			
	64	Saifoddin Kazi			
23	65	Shubham Bodhe	Mr. S B Dhekale	DeepFake Detection System	Application, Societal
	66	Pranav Desai			
	67	Janhvi Shendre			
24	68	sahil parkhe	Dr K B Chaudhari	A Real time non invasive cholesterol monitoring system	Application, Societal
	69	siddhesh badgujar			
	70	aishwarya shinde			
25	71	Deepraj More	Mr. S P Bhosale	The third eye for blind	Product, Societal
	72	Omkar Godse			
	73	Arnav Kawale			
A Y 2022-23					
Gr. No	**Sr No**	**Name**	**Guide**	**Tilte**	**Classification**
1	1	Abhishek Khande	Dr K B Chaudhari	Smart and integrated home automation system	Application
	2	Diksha Khade			
	3	Ram Patil			
2	4	Sapna	Dr S B Dhonde	Under water communication using Li-Fi technology	Application
	5	Vishakha Gaikwad			
	6	Pratiksha Kavthale			
3	7	Samruddhi Jadhav	Mrs. Y P Lad	Sanitary Napkin vending Machine	Product, societal
	8	Prathamesh Vishwas			
	9	Diya Vora			
4	10	Shweta Jagdale	Dr S B Dhonde	Intelligent control of Elevator	Product, safety
	11	Sumedha Chaudhari			
	12	Tanvi Gavhane			
5	13	Pratima Lole	Mr S B Dhekale	Multimodal Fusion of text, speech and vision for sentiment Analysis	Product, societal
	14	Mrunmayee Chothe			
	15	Pranav Patil			
6	16	Siddhesh Maskare	Dr P P Vast	2D to 3D using neural radiance field and volumetric rendering	Application
	17	Aditya Dhapse			
	18	Vedant Dere			
7	19	Chaudhari Piyush	Mr V B Gawai	The crop monitoring robot using IoRT	Product, Agriculture
	20	Mahajan Neeraj			
	21	Patil Nikita			
8	22	Shirish Nandkar	Dr. R R Itkarkar	Easy solution for accurate analysis of normal and orthotic leg	Product, societal
	23	Niraj Sabale			
	24	Mubin inamdar			

9	25	Palash Dhande	Mr. N P Mawale	IoT based smart grid system using Ardunio	Application, environment
	26	Yash Honkalse			
	27	Deepak Pathak			
10	28	Sayali Nikam	Mr. S P Bhosale	Navigation system for AISSMS COE Pune	Application
	29	Rohit There			
	30	Shraddha Deshmukh			
11	31	Ganesh Kadam	Mr. N P Mawale	Smart Cylinder trolley for home safety	Product, safety
	32	Shivam Kalane			
	33	Aditya Kumkar			
12	34	Deepali Dalvi	Dr.R R Itkarkar	Medical Assistive robot supervised through android application	Product, societal
	35	Prachi Kshirsagar			
	36	Satyam Walekar			
13	37	Amble Vijay D	Dr K B Chaudhari	Custom Object distance and detection using computer vision	Application
	38	Iyer Vignesh			
	39	Rathod Amol V			
	40	Desai Mayuri			
14	41	Himalay Khachane	Mrs. Y P Lad	Multi-banking ATM system service using biometrics	Product, safety
	42	Minal Pandey			
	43	sanika wadake			
	44	Rutuja Raut			
15	45	Pritam Munde	Dr D S Bormane Co-Guide Dr V V Deshmukh	Design and implementation of protocol for defense safety in 5G using D2D communication	Application, safety
	46	Shruti Patil			
	47	Rutam Khati			
16	48	Vrushali Gaikwad	Ms. V D Nagrale	Wireless Electric vehicle charging robot	Product, environment
	49	Divya Sutar			
	50	Amisha Yeole			
17	51	Ashutosh Pardeshi	Mr. S B Dhekale	smart pesticide bot	Product, agriculture
	52	Abhishek Jangam			
	53	Shaista Mujawar			
18	54	Harsh Shah	Dr P P Vast	Non-invasive glucose testing using microstrip antenna	Research
	55	Ishika Chankeshwara			
	56	Siddhi Nasare			
19	57	Shreyash Parkhe	Mrs. V S Navale	Text To Image AI using Deep learning	Application
	58	Aman Sagar			
	59	Arjun Singh			
20	60	Ayush Shetty	Dr. V V Deshmukh	Machine Translation using Seq2Seq with Attention/Transformers	Research
	61	Rajesh Parale			
	62	Gaurav Singh			
21	63	Kiran Zure	Dr. V V Deshmukh	Smart Cooking Chef	Product
	64	Nisha Nelge			
	65	Pravin Kunte			
	66	Akshay Jadhav			

22	67	Saumya	Ms. V D Nagrale	Designing a control system and software application to monitor advertisement/display screen	Application
	68	Shruti Gadhave			
	69	Janhavi Dabhade			
23	70	Chetna Rathod	Mrs. V S Navale	IoT based smart Blood bank system	Product, societal
	71	Rushikesh Bunde			
	72	Ashwini Ballal			
24	73	Abhishek Shinde	Mr. S B Dhekale	Microstrip Patch Antenna for 5G Network	Product
	74	Sahil Varule			
	75	Abhijit Rakh			
25	76	Kunal Kadnor	Mr. V B Gawai	Solar Cleaning System	Product, environment
	77	Vaibhav Holkar			
	78	Yash Bakare			

AY 2021-22

Gr. No	Sr. No.	Name	Guide	Title of Project	Classification
1	1	Arindam Pal	Dr. D S Bormane Co-Guide Mr. V B Gawai	Optimizing Water Parameters Maintenance in Aquaculture	Application, Environment
	2	Pooja Dilip Kulkarni			
	3	Prathmesh Borle			
2	4	Daideep Bhingarde	Dr D G Bhalke	Stock Price Prediction and Sector wise Stock Recommendation	Application
	5	Siddhi Deshmukh			
	6	Digvijay Dhere			
3	7	Neha Kanade	Dr. K B Chaudhari	Satellite remote sensing application for agriculture sector	Product, Agriculture, Environment
	8	Vaishnavi Mohite			
	9	Vinit Gujarkar			
4	10	Himanshu Abhiraj	Mrs. Y P Lad	Flood monitoring system	Application, Environment, safety
	11	Saurabh Jangam			
	12	Aishwarya Patil			
5	13	Miheeka Khair	Mr S B Dhekale	Voice Tone recommendation	Application
	14	Mamta Patni			
	15	Sana Subhedar			
6	16	Abhishek Bande	Mr. N P Mawale	Design and implementation of 3 Axis CNC PCB drilling machine	Product
	17	Aniket Ajur			
	18	Vishal Bandage			
7	19	Dhanashree Chore	Dr. P P Vast	Breast Cancer Detection Using ML	Research
	20	Rinki			
	21	Kunal Varade			
8	22	Vinay Pohankar	Ms V D Nagrale	Environment behavior prediction	Research, environment
	23	Preeti Kumari			
	24	Tanmay Dahale			
9	25	Lalit Tiwade	Ms V V Deshmukh	Home Automation using Alexa	Product
	26	Apurva Kumbhar			
	27	Rasika Hasurkar			

10	28	Suvidhan Mane	Mrs V S Navale	Automated Data entry using Robotic process Automation	Product
	29	Krutika Jagtap			
	30	Tanmayee Gajare			
11	31	Khushboo Khobragade	Mrs Y P Lad	Water Surface Cleaning Machine	Application, environment
	32	Aishwarya Kadu			
	33	Rekha Rajguru			
12	34	Kedar Pawar	Mr V B Gawai	CNC PCB Router	Application
	35	Ishan Gupta			
	36	Rutuja Kothari			
	37	Abhishek Khedkar			
13	38	Ashwajeet Kamble	Mrs R R Itkarkar	Zeus: Smart electric Vehicle	Product, Environment
14	39	Paarth Umbarkar	Mrs R R Itkarkar	Driver Monitoring System for Digital Twin	Application, safety
	40	Akshat Gupta			
	41	Anuja Joshi			
	42	Tanmay Pawar			
15	43	Mihir Hambir	Dr. D G Bhalke	IoT in Pre-Forging Process	Application
	44	Aniket Jadhav			
	45	Shyamkrishnan Nair			
16	46	Rohit Khandare	Dr K B Chaudhari	ML Based Secured Voting System	Product, societal
	47	Harshavardhan Darekar			
	48	Omkar Raut			
	49	Manjusha Burange			
17	50	Suyash Rajpure	Mr. S P Bhosale	Timer controlled automatic switch for 3 phase induction motor.	Application
	51	Monali Londhe			
	52	Megha Tadge			
18	53	Atharva Mane	Mr S B Dhekale	IoT based water quality monitoring system	Application, environment
	54	Satyajeet Patil			
	55	Sakshi Singh			
19	56	Jalinder Yewale	Mrs.. S A Takalkar	System To Detect Thief Events Using Raspberry Pi	Product
	57	Anmay Awale			
20	58	Kaustubh Adhav	Dr P P Vast	Bike Security System	Product
	59	Neha Khandale			
	60	Azim Attar			

AY 2020-21

Gr.No	Sr. No.	Name	Guide	Title	Classification
1	1	Aniket Dalvi	Mrs. R R Itkarkar	Diagnosis and Detection of Covid19 , Pneumonia using Deep Learning	Application, Societal
	2	Anushka Tidke			
	3	Shivam Deshmukh			
2	4	Komal Jadhav	Mr. S B Dhekale	Smart mirror	Application
	5	Diksha Ingale			
	6	Mansi Shirode			

3	7	Shreya Gorte	Ms. V D Nagrale	A Hybrid Approach for helmet detection	Product, Societal, Safety
	8	Prateek Jha			
	9	Rohit Jain			
4	10	Devendra Kondalkar	Mr. A Y Kazi	Automated Paralysis Patient Healthcare System	Application, Societal
	11	Swar Malu			
	12	Pranav Lalwadia			
5	13	Rishikesh Nikam	Dr. D S Bormane Co-Guide Mrs R R Itkarkar	Automated handwritten character recognition	Application, Societal
	14	Rakesh Sawant			
	15	Prathmesh Pardeshi			
6	16	Shiv Kumar Dange	Mrs. V V Deshmukh/ Mrs. V S Navale	Smart and secure Voice controlled ATM with biometric authentication	Product, Societal,
	17	Shivani Singh			Safety
	18	Astha Sharma			
7	19	Vedant Kasat	Mrs. Y P Lad	Gesture control Robotic Arm	Product
	20	Kattapa Koli			
	21	Shewta Gaddi			
8	22	Pragna Chatla	Dr. D G Bhalke	Pot hole and hump detection	Application, environment, Safety
	23	Samiksha Metha			
	24	Neha Waghmare			
9	25	Rutuja Patil	Mr V B Gawai	IWear - The IOT based protection jacket for women	Product, safety
	26	Priyanka Sawant			
	27	Pranjal Choudhari			
	28	Shubham Pujari			
10	29	Komal Deshmukh	Mr. V B Gawai	Smart ECG Monitoring System	Application
	30	Shreya Usturage			
	31	Shweta Bhoskar			
11	32	shrishti Mishra	Mr. N P Mawale	Secured Smart Shopping Cart	Product
	33	diksha rane			
	34	Lahu Jogdand			
12	35	Swapnali Katke	Dr. P P Vast	IOT based System to avoid wastage of fruits	Product, environment
	36	Aishwarya Kamble			
	37	Pramila Bansode			
13	38	Pooja Patil.	Mrs S A Takalkar	IoT based COVID alert multi-sensor integrated self-Sanitizing System	Product, societal
	39	Chaitali Mahajan.			
	40	Sonali Gardade.			
14	41	Nikita Shelar	Mrs. K B Chaudhari	A Wireless Sensor Network monitoring system for walls and Civil Structures	Application, safety
	42	Prajakta Khatavkar			
	43	Geeta Sude			
	44	Satyam Kasbe			
15	45	Saurabh Shinde	Dr. D G Bhalke	Gesture Vocalizer	Application
	46	Suryakant Mane			
	47	sagar bhakare			
16	48	Vaishnavi Kamble	Mr. S P Bhosale	Classification of ECG Arrhythmias using	Research
	49	Pooja Kadam			

	50	Vaishnavi Khangale		discrete wavelet transform and neural networks.	
17	51	Kasturi Phalle	Mrs. Y P Lad	Elevator safety system	Product, safety
	52	Ram Tapse Patil			
	53	Taushif Ahmed			
18	54	Rajashri Yalla	Mrs. K B Chaudhari	RONOA Assistant Robot	Product
	55	Abhishek Lad			
	56	Nikita Killedar			
19	57	Ankush Basarge	Mrs R R Itkarkar	Smart Surveillance Robot	Product
	58	Shreyas Kadam			
	59	Rushikesh Darwatkar			
	60	Prathmesh Bhondave			
20	61	Yukta Bharambe	Mrs. V S Navale	Automated Patient Room using Neural Network based Speech Recognition	Research
	62	Akshata Loya			
	63	Saakshi Pawar			
	64	Rajas Soman			

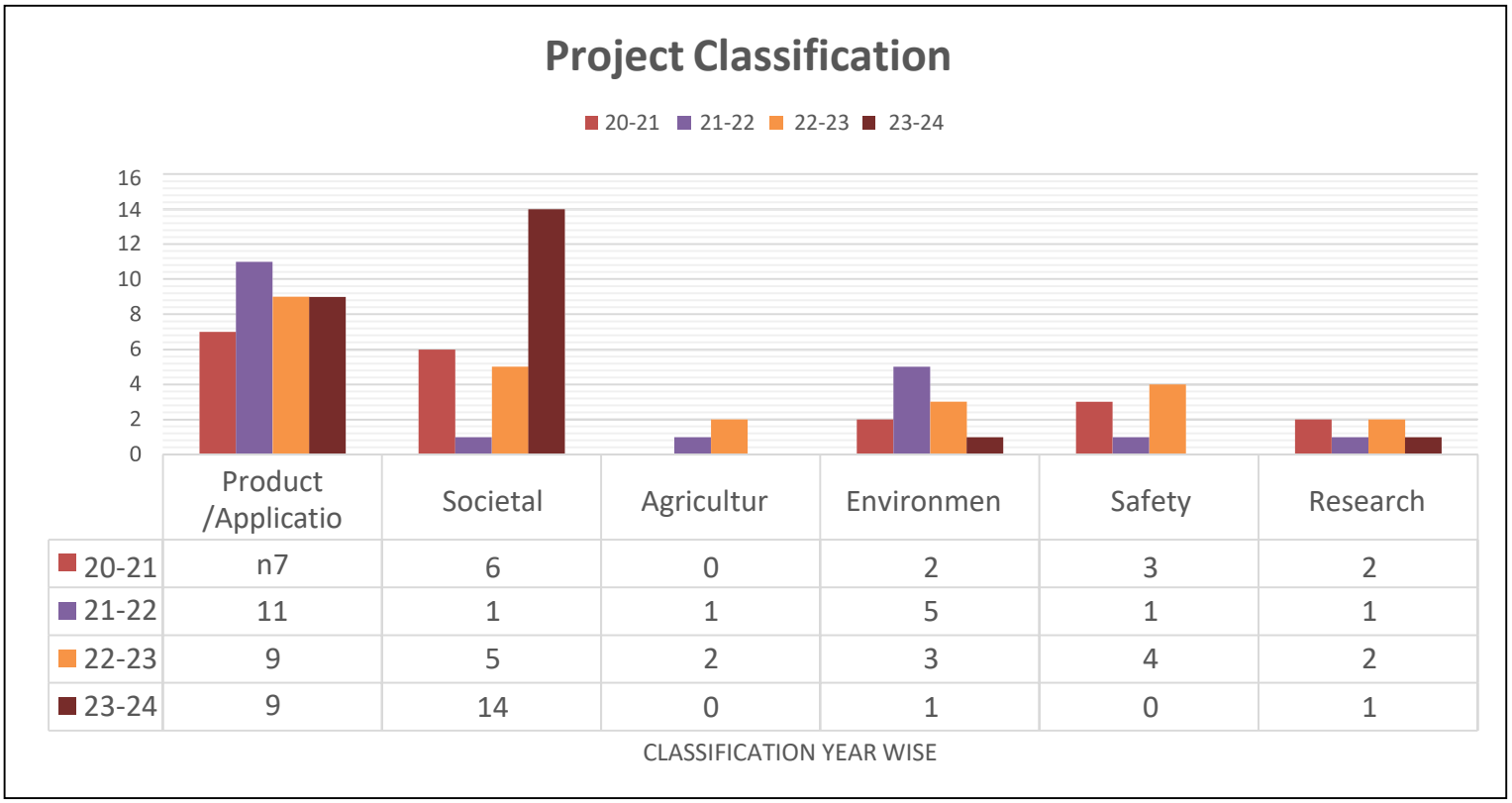


Fig: 2.2.3.2: Project classification chart for Quality of project

Course outcomes and its Mapping with POs and PSOs

Course outcomes -Project Stage-1

CO1: Identify project for society and industry need by applying engineering knowledge gained throughout the E and TC Engineering program

CO2: Investigate identified complex engineering problem using appropriate research methods and techniques

CO3: Test the solution of identified engineering problem with appropriate simulation tool.

CO4: Work in team and effective budget Planning to meet the project requirement

CO5: Effectively communicate the project progress through presentations and technical report.

CO6: Develop self-learning skills and follow the ethical code of conduct for project.

Table 2.2.3.3 CO-PO mapping Project Stage-1

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
CO1	3	3	2	3		3	3						3	2	2
CO2	2	3	3	3	2	2							3	3	2
CO3					3			2	3		3		3	3	3
CO4									3	2	3				2
CO5									2	3	3				2
CO6								3	2			3			2

Course outcomes -Project Satge-2

CO1: Develop solutions to the real world problems using modern engineering tools and technologies.

CO2: Demonstrate practical skills and knowledge in testing and debugging for both hardware and software based projects.

CO3: Work in team to demonstrate the project by using visual aids and visualization techniques.

CO4: Effectively communicate project work through publications, competitions, presentations and technical report.

CO5: Showcase the project management and self-learning skills for lifelong learning.

CO6: Adherence to ethical code of conduct for project execution.

Table 2.2.3.3 CO-PO mapping Project Stage-2

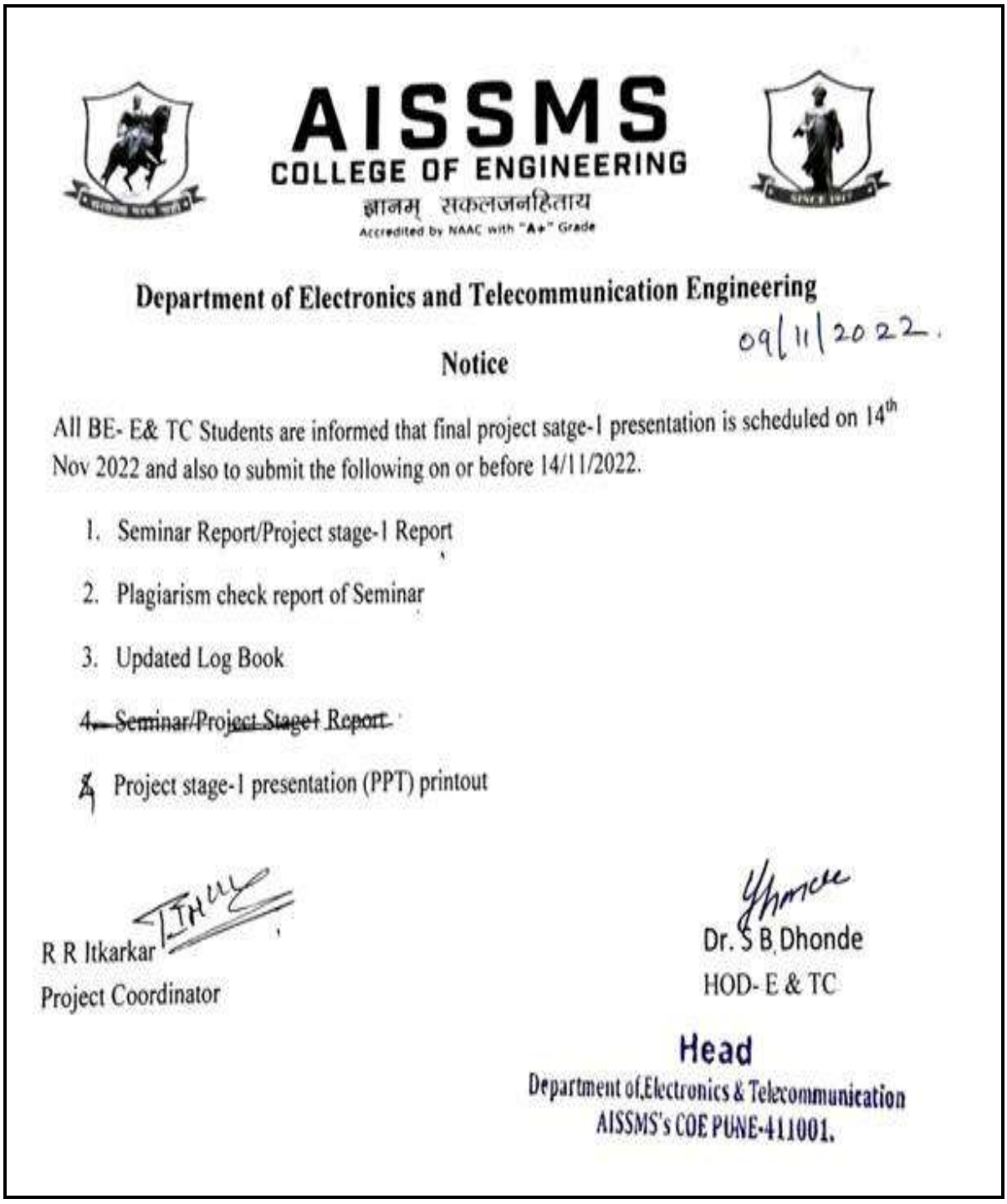
Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	3	3	3		3	2	2						3	3	
CO2	3	3	3	3	3								3	3	
CO3					2			2	3	3					3
CO4										3		3			3
CO5										3	3	3			3
CO6								3			2	3			3

C. Continuous monitoring mechanism and evaluation

As per the guidelines in the prescribed curriculum for project, the students need to complete the project in two phases, project stage-1 & project stage-2. Students as team are required to meet their project Guide on weekly basis. A monthly assessment report duly signed by the Guide needs to be submitted to the project coordinator at the end of semester in the form of log book. To monitor the progress and evaluate the project, two review presentations are conducted in each Semester. The presentations are evaluated by Project evaluation committee. The following table shows the monitoring mechanism and evaluation.

Table 2.2.3.4 Project monitoring mechanism and evaluation

Project Phase-I Review	
Project Title Presentation	Based on the presentation and the discussion during the review, the title of the project is finalized.
Review-1	Evaluation based on Literature survey, market survey, identification of methodology, component selection
Review-2	Evaluation based on design and development of Methodology is identified to solve the problem.
Phase-1 Exam	External Evaluation carried out as per SPPU schedule
Project Phase-II Review	
Review-3	Evaluation based on Implementation of methodology as per software/Hardware requirement, testing and result validation.
Review-4	Evaluation based as Final product/system demonstration as team and individual.
Final Project demonstration	Demonstration and evaluation through exhibition.
Phase-II Exam	External Evaluation carried out as per SPPU schedule



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09/11/2022.

Notice

All BE- E& TC Students are informed that final project satge-1 presentation is scheduled on 14th Nov 2022 and also to submit the following on or before 14/11/2022.

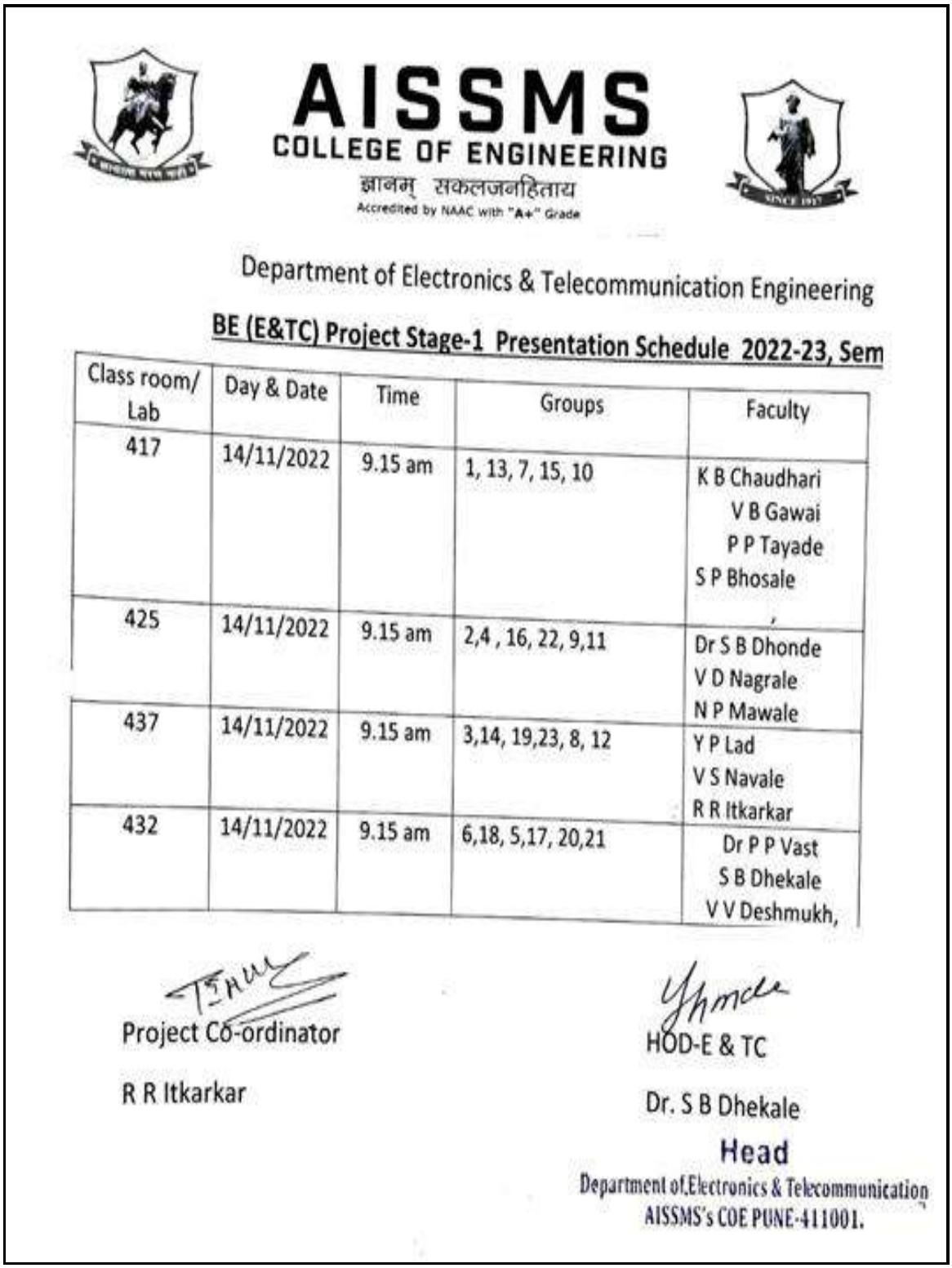
1. Seminar Report/Project stage-1 Report
2. Plagiarism check report of Seminar
3. Updated Log Book
4. ~~Seminar/Project Stage1 Report~~
5. Project stage-1 presentation (PPT) printout

R R Itkarkar
Project Coordinator

Dr. S B Dhonde
HOD- E & TC

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

Fig 2.2.3.3:Notice for Project Presentation



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BE (E&TC) Project Stage-1 Presentation Schedule 2022-23, Sem

Class room/ Lab	Day & Date	Time	Groups	Faculty
417	14/11/2022	9.15 am	1, 13, 7, 15, 10	K B Chaudhari V B Gawai P P Tayade S P Bhosale
425	14/11/2022	9.15 am	2,4 , 16, 22, 9,11	Dr S B Dhonde V D Nagrale N P Mawale
437	14/11/2022	9.15 am	3,14, 19,23, 8, 12	Y P Lad V S Navale R R Itkarkar
432	14/11/2022	9.15 am	6,18, 5,17, 20,21	Dr P P Vast S B Dhekale V V Deshmukh,

Project Co-ordinator

R R Itkarkar

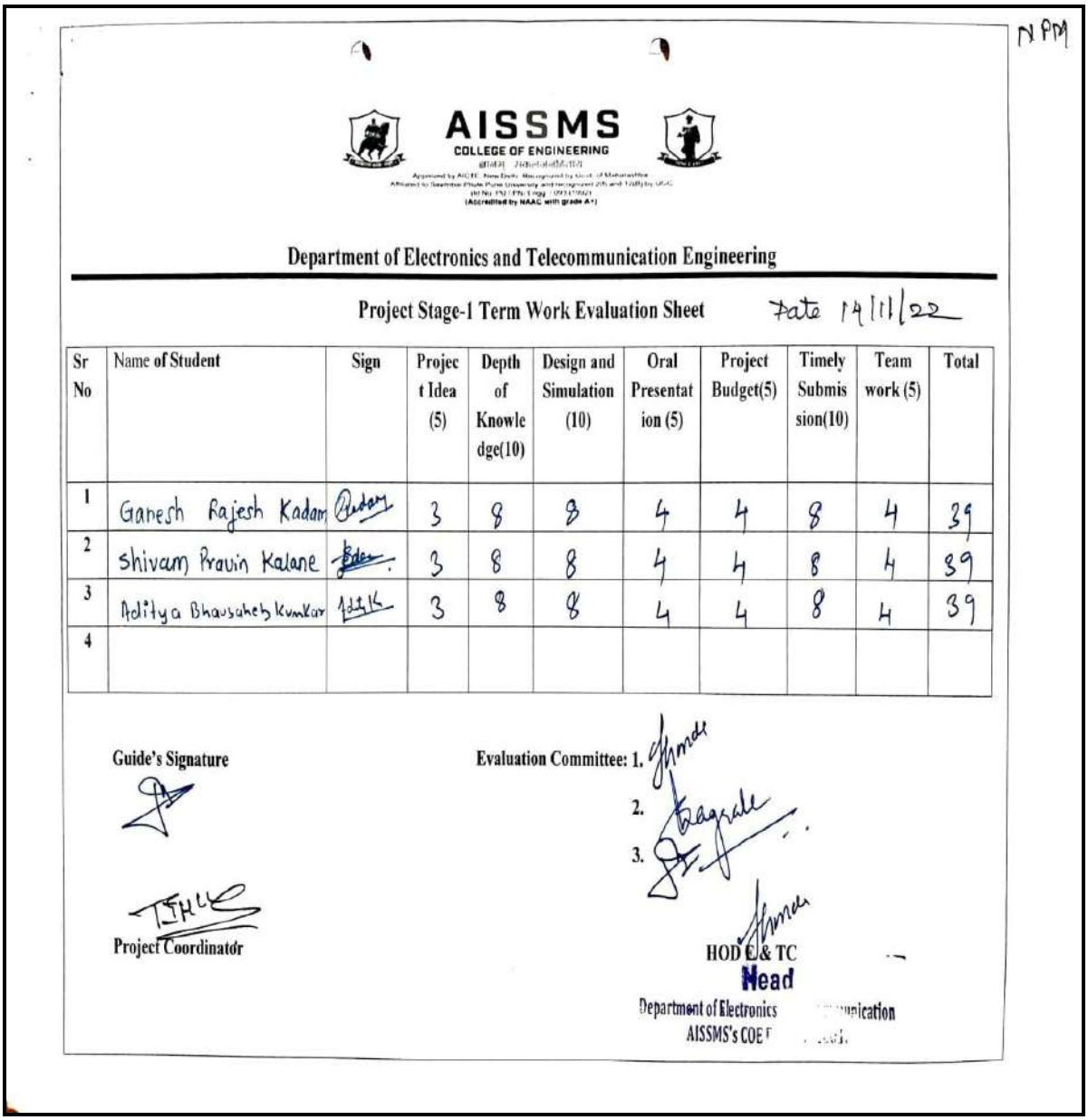
HOD-E & TC

Dr. S B Dhekale

Head

Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.

Fig 2.2.3.4 Schedule for Project Presentation



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Department of Electronics and Telecommunication Engineering

Project Stage-1 Term Work Evaluation Sheet Date 14/11/22

Sr No	Name of Student	Sign	Project Idea (5)	Depth of Knowledge(10)	Design and Simulation (10)	Oral Presentation (5)	Project Budget(5)	Timely Submission(10)	Team work (5)	Total
1	Ganesh Rajesh Kadam		3	8	8	4	4	8	4	39
2	Shivam Pravin Kalane		3	8	8	4	4	8	4	39
3	Aditya Bhausaheb Kumkar		3	8	8	4	4	8	4	39
4										

Guide's Signature

Evaluation Committee: 1. 2. 3.

Project Coordinator

HOD E & TC
Head
Department of Electronics
AISSMS's COE

Fig 2.2.3.5: Sample Evaluation Sheet

AISSMS College of Engineering

Department of Electronics &Telecommunication

Project Group List - BE(Electronics and Telecommunication Engineering)

A.Y 2021-22 Final Evaluation Project Seminar

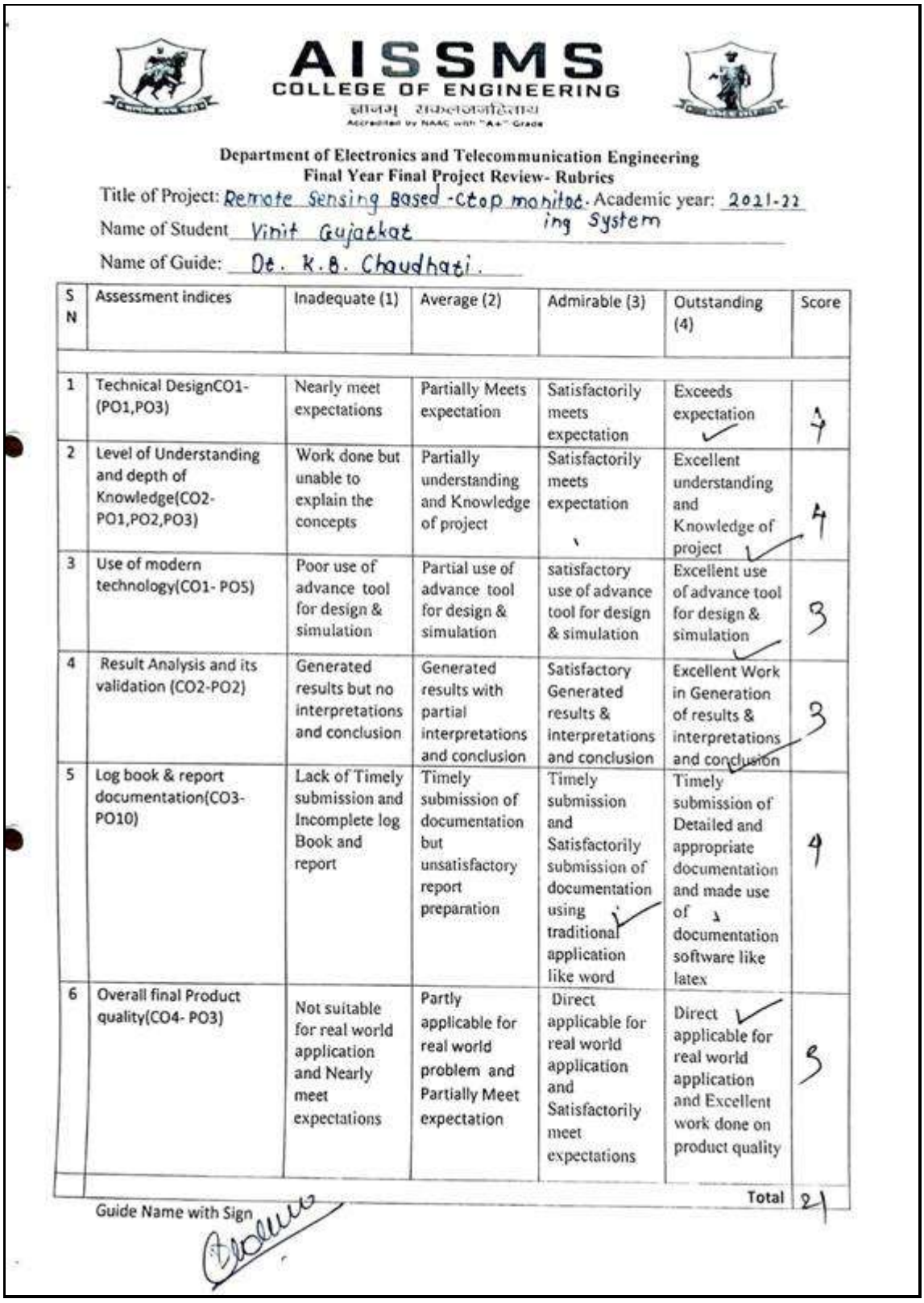
Group No	Sr. No	Name	Guide	Area of Project	Title of Project	Technical credibility (knowledge, understanding etc) 20	Presentation (content, soft skill, etc) 20	Regularity, initiative and interaction 10	Total out of 50	Attendance status	Project Work Status in %
1	1	Arindam Pal	Dr. D S Bormane Co-Guide V B Gawai	IOT	Optimizing Water Parameters Maintainance in Aquaculture	15	15	6	36	Present	75%
	2	Pooja Dilip Kulkarni				15	15	6	36	Present	
	3	Prathmesh Borle				15	15	6	36	Present	
2	4	Daideep Bhingarde	Dr D G Bhalke	Data Science + ML	Stock Price Prediction and Sector wise Stock Recommendation	17	15	5	37	Present	60
	5	Siddhi Deshmukh				17	15	5	37	Present	
	6	Digvijay Dhere				17	15	5	37	Present	
3	7	Neha Kanade	Prof K B Chaudhari	ML/IOT	Satellite remote sensing application for agriculture sector	15	17	7	39	Present	60
	8	Vaishnavi Mohite				15	16	5	36	Present	
	9	Vinit Gujarkar				15	16	5	36	Present	
4	10	Himanshu Abhiraj	Prof Y P Lad	IOT	Flood monitoring system	15	16	7	38	Present	
	11	Saurabh Jangam				15	16	7	38	Present	
	12	Aishwarya Patil				15	16	7	38	Present	
5	13	Maheeka Khan	Prof S B Dhekale	8	Voice Tone recommendation	0	0	0	0	Absent	25
	14	Mamta Patil				0	0	0	0	Absent	
	15	Sana Subhedar				0	0	0	0	Absent	
6	16	Abhishek Bande	Prof. N P Mawale	Embedded systems	Design and implementation of 3 Axis CNC PCB drilling machine	15	15	7	37	Present	60%
	17	Aniket Ajur				15	16	7	38	Present	
	18	Vishal Bandage				16	16	8	40	Present	
7	19	Dhanashree Chore	Dr. P P Vast	ML	Breast Cancer Detection Using ML	15	16	7	38	Present	40
	20	Rinki				15	15	7	37	Present	
	21	Kunal Varade				15	15	7	37	Present	
8	22	Vinay Puhankar	Prof V D Nagrale		Environment behavior prediction	0	0	0	0	Absent	30
	23	Neelu Kumari				0	0	0	0	Absent	
	24	Tanmay Dahale				0	0	0	0	Absent	
9	25	Lalit Tiwale	Prof. V V Deshmukh	IOT	Home Automation using Alexa	15	15	7	37	Present	45
	26	Apurva Kumbhar				15	15	7	37	Present	
	27	Rasika Hasurkar				15	15	7	37	Present	
10	28	Savitha Mane	Prof. V S Navale			12	13	5	30	Present	50
	29	Krutika Jagtap				12	13	5	30	Present	
	30	Tanmayee Gujare				12	13	5	30	Present	
11	31	Khushboo Khobragade	Prof Y P Lad	Embedded Systems	Water Surface Cleaning Machine	0	0	0	0	Absent	
	32	Aishwarya Kale				0	0	0	0	Absent	
	33	[illegible]				0	0	0	0	Absent	
12	34	[illegible]	Prof V B Gawai	Embedded Systems	CNC PCB Router	18	18	8	44	Present	
	35	[illegible]				18	18	8	44	Present	
	36	[illegible]				18	18	8	44	Present	
	37	[illegible]				18	18	8	44	Present	
13	38	Ashwajeet Kamble	Prof. R R Itkarkar	Robotics	The Robo Cook	15	14	7	36	Present	
14	39	[illegible]	Prof. R R Itkarkar	AI + IOT	Driver Monitoring System for Digital Twin	16	16	7	39	Present	70
	40	[illegible]				16	16	7	39	Present	
	41	[illegible]				16	16	7	39	Present	
	42	[illegible]				16	16	7	39	Present	
15	43	[illegible]	Dr. D G Bhalke	IOT + AI	IoT in Pre-Forging Process	15	15	7	37	Present	40
	44	[illegible]				15	15	7	37	Present	
	45	[illegible]				15	15	7	37	Present	
16	46	[illegible]	Prof. K B Chaudhari	ML + IOT	ML based Security Voting System	0	0	0	0	Absent	60
	47	[illegible]				0	0	0	0	Absent	
	48	[illegible]				0	0	0	0	Absent	
	49	[illegible]				0	0	0	0	Absent	
17	50	Suyash Rajpure	Prof. S P Bhosale	Embedded systems	Timer controlled automatic switch for 3 phase induction motor	15	15	5	35	Present	
	51	[illegible]				15	15	5	35	Present	
	52	[illegible]				15	15	5	35	Present	
18	53	[illegible]	Prof S B Dhekale	IOT	IoT based water quality monitoring system	15	15	7	37	Present	20
	54	[illegible]				14	14	7	35	Present	
	55	[illegible]				14	14	7	35	Present	
19	56	[illegible]	Prof. S A Takalkar		SYSTEM TO DETECT THEFT EVENTS USING RASPBERRY PI	0	0	0	0	Absent	40
	57	Anmay Awale				0	0	0	0	Absent	
20	58	[illegible]	Dr P P Vast	IOT	Bike Security System	15	15	5	35	Present	60
	59	[illegible]				15	15	5	35	Present	
	60	[illegible]				15	15	5	35	Present	
21	61	[illegible]	Prof V D Nagrale						0	Absent	
	62	[illegible]							0	Absent	

Project Coordinator
R R Itkarkar

HOD
Dr D G Bhalke

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

Fig 2.2.3.6: Project Evaluation during online Learning



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Department of Electronics and Telecommunication Engineering
Final Year Final Project Review- Rubrics

Title of Project: Remote Sensing Based -Crop monitoring System Academic year: 2021-22

Name of Student Vinit Gujatkar

Name of Guide: Dr. K.B. Chaudhari.

SN	Assessment indices	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Score
1	Technical DesignCO1-(PO1,PO3)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation	Exceeds expectation	4
2	Level of Understanding and depth of Knowledge(CO2-PO1,PO2,PO3)	Work done but unable to explain the concepts	Partially understanding and Knowledge of project	Satisfactorily meets expectation	Excellent understanding and Knowledge of project	4
3	Use of modern technology(CO1- PO5)	Poor use of advance tool for design & simulation	Partial use of advance tool for design & simulation	satisfactory use of advance tool for design & simulation	Excellent use of advance tool for design & simulation	3
4	Result Analysis and its validation (CO2-PO2)	Generated results but no interpretations and conclusion	Generated results with partial interpretations and conclusion	Satisfactory Generated results & interpretations and conclusion	Excellent Work in Generation of results & interpretations and conclusion	3
5	Log book & report documentation(CO3-PO10)	Lack of Timely submission and Incomplete log Book and report	Timely submission of documentation but unsatisfactory report preparation	Timely submission and Satisfactorily submission of documentation using traditional application like word	Timely submission of Detailed and appropriate documentation and made use of documentation software like latex	4
6	Overall final Product quality(CO4- PO3)	Not suitable for real world application and Nearly meet expectations	Partly applicable for real world problem and Partially Meet expectation	Direct applicable for real world application and Satisfactorily meet expectations	Direct applicable for real world application and Excellent work done on product quality	3
					Total	21

Guide Name with Sign

Fig 2.2.3.7 Use of Rubrics for Evaluation

D. Process to assess individual and team performance

Project coordinator displays the presentation schedule after submission of project synopsis by the students. The presentation is scheduled and conducted twice in each semester by project evaluation committee. Students project progress is documented in form of marks.
The performance of the individual team member of the project is assessed at the time of review presentations and rubrics on following criterions:

- Design and Component selection
- Market survey and Literature survey
- Simulation
- Oral presentation and Effective communication as team member
- Estimation of Project Budget
- Depth of Knowledge
- Hardware/Software Design
- Use of modern technology
- Hardware testing / Software testing
- Analysis and validation of results
- Contribution as a team member

Following Rubrics are used for Assessment of individual / Collective contribution

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Department of Electronics and Telecommunication Engineering

Final Year Project Review-1 Rubrics

Title of Project: Pesticide Spraying Robot Academic year: 2022-23

Name of Student Abhishek Jangam

Name of Guide: Prof. S.B. Dhekale

S N	Assessment indices	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Score
Team work assessment seminar (B1)						
1	Problem Identification/ Topic Selection (CO1-PO1,PO2)	Useful for limited group and not innovative	Useful for society but not innovative	Somewhat innovative and useful for society	Complete Innovative and useful for society ✓	4
2	Literature Survey (CO2-PO2, PO4)	Not followed standard references	Followed conference paper	Journals but not standard	Followed standard Scopus, SCI, Web of science etc.. journals ✓	4
3	Methodology and Depth of Understanding (CO3- PO1,PO2, PO3)	Nearly meet expectations	Meets expectation in some manner	Extend expectation in some manner ✓	Exceeds expectation	3
					Total	11

Guide Name with Sign

Fig 2.2.3.8 Rubrics for Review-1

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Department of Electronics and Telecommunication Engineering

Final Year Project Review-2 Rubrics

Title of Project: Pesticide Spraying Robot Academic year: 2022-23

Name of Student: Abhishek Jangam

Name of Guide: Prof. S. B. Dhekale

SN	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Design and Component selection (CO3-PO1,PO2,PO3, PO4)	Design done no selection of components	Partial Design done and selection of components	Satisfactory Design and Component selection	Excellent Work in Design and Component selection ✓	6
2	Simulation (CO3-PO5)	No Simulation executed	Low use of advance tool for design & simulation	Moderate use of advance tool for design & simulation	Extensive use of advance tool for design & simulation	6
3	Oral presentation and Effective communication as team member (CO4- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills. ✓	Demonstrated Excellently technical al details and communicated effectively .	5
4	Estimation of Project Budget (CO3- PO11)	Poor planning and Management	Average planning and Management	Good planning and Management ✓	Excellent planning and Management	5
					Total	22

Guide Name with Sign

Fig 2.2.3.9 Rubrics for Review-2

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Department of Electronics and Telecommunication Engineering

Final Year Project Review-3- Rubrics

Title of Project: Pesticide spraying Robot Academic year: 2022-23

Name of Student: Abhishek Jangam

Name of Guide: Prof. S. B. Dhekale

SN	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Execution of hardware and software design (CO1-PO1,PO2,PO3,PO5)	No Execution	Partial Execution	Satisfactory Execution	Excellent Work ✓	6
2	PCB Making Hardware testing / Software testing (CO2- PO5)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation ✓	Exceeds expectation	5
3	Oral presentation and Effective communication (CO3- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills. ✓	Demonstrated Excellently technical al details and communicated effectively .	5
4	Contribution as a team member(CO4-PO9)	Contribution only in documentation	Contribution in documentation and presentation preparation	Contribution in documentation, presentation, requirements ✓ and specification	Contribution in over all work	5
					Total	26

Guide Name with Sign

Fig 2.2.3.10 Rubrics for Review-3

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Department of Electronics and Telecommunication Engineering

Final Year Project Review-4- Rubrics

Title of Project: Pesticide Spraying Robot Academic year: 2022-23

Name of Student Abhishek Jangam

Name of Guide: Prof. S. B. Dhekale

SN	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Analysis and validation of results (CO2-PO2,PO3)	Generated results but no interpretations and conclusion	Generated results with partial interpretations and conclusion	Satisfactory Generated results & interpretations and conclusion	Excellent Work in Generation of results & interpretations and conclusion	6
2	Draft copy of Project Report(CO3-PO10)	Incomplete documentation	Partially documentation	Satisfactorily completed documentation using traditional application like word	Detailed, appropriate documentation and made use of documentation software like latex	5
3	Oral presentation and Effective communication (CO3-PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills.	Demonstrated Excellently technical al details and communicated effectively .	5
4	Contribution as a team leader(CO4-PO9)	Unable to lead the team	Few efforts to lead the team	Satisfactory efforts to lead the team	Leaded the team with excellent coordination	5
					Total	31

Guide Name with Sign

Fig 2.2.3.11 Rubrics for Review-4

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Department of Electronics and Telecommunication Engineering

Final Year Project Seminar Review Rubrics

Title of Project: Pesticide spraying Robot Academic year: 2022-23

Name of Student Abhishek Jangam

Name of Guide: Prof. S. B. Dhekale

SN	Assessment indices	Inadequate (2)	Average (4)	Admirable (6)	Outstanding (8)	Score
Team work assessment seminar (B1)						
1	Depth of Knowledge (CO3- PO1,PO2)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation	Exceeds expectation ✓	8
2	Hardware, Software Design (CO3- PO2,PO3,PO4,PO5)	No Simulation executed	Low use of advance tool for design & simulation	Moderate use of advance tool for design & simulation	Satisfactory use of advance tool for design & simulation ✓	8
3	Oral presentation and Effective communication (CO4- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills. ✓	Demonstrated Excellently technical al details and communicated effectively.	6
4	Contribution as a team member(CO4- PO9)	Contribution only in documentation	Contribution in documentation and presentation preparation	Contribution in documentation, presentation, requirements and specification	Contribution in over all work ✓	8
5	Partial Demonstration (CO4- PO3,PO4)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation	Exceeds expectation ✓	8
					Total	38

Guide Name with Sign

Fig 2.2.3.12 Rubrics for Seminar –Project satge-1

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Department of Electronics and Telecommunication Engineering
Final Year Final Project Review- Rubrics

Title of Project: Pesticide spraying Robot Academic year: 2022-23

Name of Student Abhishek Jangam

Name of Guide: Prof. S. B. Phekale

SN	Assessment indices	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Score
1	Technical DesignCO1-(PO1,PO3)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation	Exceeds expectation ✓	4
2	Level of Understanding and depth of Knowledge(CO2-PO1,PO2,PO3)	Work done but unable to explain the concepts	Partially understanding and Knowledge of project	Satisfactorily meets expectation ✓	Excellent understanding and Knowledge of project	3
3	Use of modern technology(CO1- PO5)	Poor use of advance tool for design & simulation	Partial use of advance tool for design & simulation	satisfactory use of advance tool for design & simulation	Excellent use of advance tool for design & simulation	3
4	Result Analysis and its validation (CO2-PO2)	Generated results but no interpretations and conclusion	Generated results with partial interpretations and conclusion	Satisfactory Generated results & ✓ interpretations and conclusion	Excellent Work in Generation of results & interpretations and conclusion	3
5	Log book & report documentation(CO3-PO10)	Lack of Timely submission and Incomplete log Book and report	Timely submission of documentation but unsatisfactory report preparation	Timely submission and Satisfactorily submission of documentation using traditional application like word	Timely submission of Detailed and ✓ appropriate documentation and made use of documentation software like latex	4
6	Overall final Product quality(CO4- PO3)	Not suitable for real world application and Nearly meet expectations	Partly applicable for real world problem and Partially Meet expectation	Direct applicable for real world application and Satisfactorily meet expectations	Direct ✓ applicable for real world application and Excellent work done on product quality	4
					Total	21

Guide Name with Sign

Fig 2.2.3.13 Rubrics for Project satge-2

E: Quality of completed projects/working prototypes (5)

Based on the following points Quality of the completed projects is decided

- Department organizes project demonstration/exhibition. Department invites external experts for evaluating the demonstrations and based on the evaluation best projects are awarded.
- Students participate in Project competitions.
- Students publish papers in reputed journals.
- Industry sponsored project.
- Project applicable to society or project having potential for converting into product.

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Notice

Date: 02/05/2023

Project Exhibition is scheduled on Friday, **05/05/2023 at 11.00 am. Prepare the following**

- Final Demonstration,
- Poster containing Project Idea, Block Schematic, Project Specifications, Results and Conclusion. (A3 Size)
- Project Presentation with minimum 6 slides

Lab	Groups	Guide and Faculty Team for Evaluation	External Evaluator
432	1, 13, 19,23, 18	Dr K B Chaudhari V S Navale Dr P P Vast	External Evaluator1
437	2,4 , 16, 22 6,	Dr S B Dhonde V D Nagrale Dr P P Vast	External Evaluator2
451	3,14, 8, 12 Electronics(1) 5,	Y P Lad Dr R R Itkarkar S B Dhekale	External Evaluator3
429	17, 24 20,21, 15	S B Dhekale Dr V V Deshmukh	External Evaluator4
456	9,11 10 7, 25	N P Mawale S P Bhosale V B Gawai	External Evaluator5

Dr.R R Itkarkar
Project Coordinator

Dr S B Dhonde
HOD- E & TC
Head
Department of Electronics & Telecommunication
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Fig 2.2.3.14 Notification of Project Exhibition

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Department of Electronics and Telecommunication Engineering
BEST PROJECTS FOR INSTITUTE LEVEL COMPETITION
AY: 2022-23-II

Date: 08/05/2023

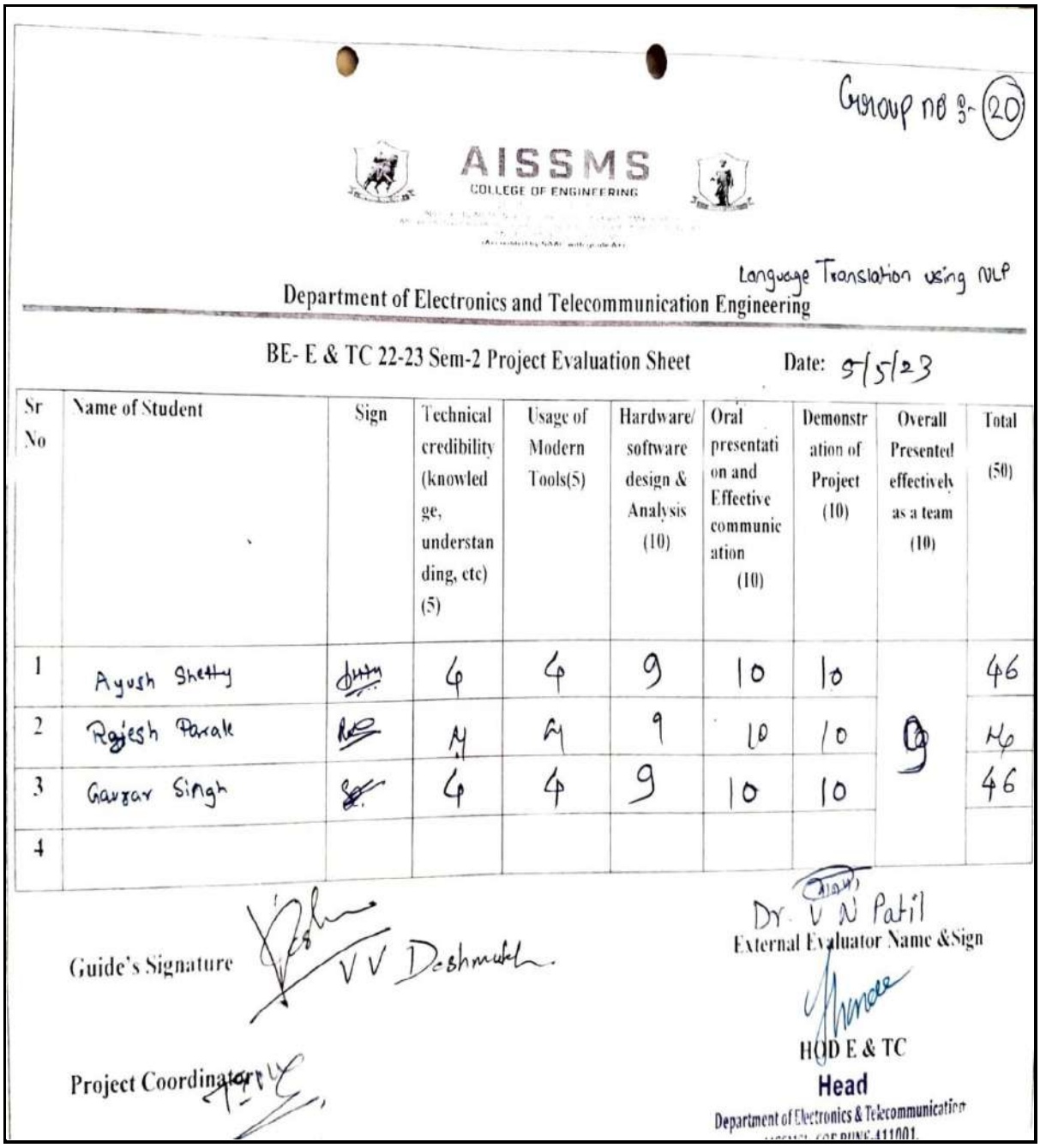
As per guidelines received from central project committee, E & TC department had organized an project exhibition on 5th may 2023. The exhibition was inaugurated by Principal Dr D S Bormane. The projects were evaluated by internal and external evaluator. The evaluation was done on the basis of Technical knowledge, Usage of modern tool, hardware software design, demonstration and oral communication and presentation skills. Following groups were selected for institute level competition.

Group no	Sr no	Name of Sstudents	Guide	Title of Project
4	1	Shweta Sharad Jagdale	Dr S B Dhonde	Intelligent control of Elevator
	2	Sumedha Shekhar Chaudhari		
	3	Tanvi Parmeshwar Gavhane		
5	4	Pratima Lole	S B Dhekale	Multimodal Fusion of text, speech and vision for sentiment Analysis
	5	Mrunmayee Chothe		
	6	Pranav Patil		
6	7	Siddhesh Maskare	Dr P P Vast	2D to 3D using neural radiance field and volumetric rendering
	8	Aditya Dhapse		
	9	Vedant Dere		
7	10	Chaudhari Piyush Dinesh	V B Gawai	The crop monitoring robot using IoRT
	11	Mahajan Neeraj Vinod		
	12	Patil Nikita Ajitsinh		
8	13	Shirish Nandkar	R R Itkarkar	Easy solution for accurate analysis of normal and orthotic leg
	14	Niraj Sabale		
	15	Mubin inamdar		
21	16	Kiran Zure	V V Deshmukh	Smart Cooking Chef
	17	Nisha Nelge		
	18	Pravin Kunte		
	19	Akshay Jadhav		

Project Co-ordinator

HOD
Head
Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.

Fig 2.2.3.16 Winners of Project Exhibition



Group no :- 20

AISSMS COLLEGE OF ENGINEERING

Language Translation using NLP

Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet Date: 5/5/23

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	Ayush Shetty		6	6	9	10	10	9	46
2	Rajesh Parale		4	4	9	10	10		46
3	Gaurav Singh		6	6	9	10	10		46
4									

Guide's Signature VV Deshmukh

Project Coordinator

Dr. V N Patil
External Evaluator Name &Sign

HOD E & TC
Head
Department of Electronics & Telecommunication

Fig 2.2.3.15 Evaluation of Project Exhibition

List of Student participation in project Competitions and paper presentations at national & International conference stating quality of project.

Table 2.2.3.4 List of student participation in Project Competitions and Conferences.

Sr No	Name of the Student	Competition	Date	Winner/ Participation
1	Divya Vora Vishwas Prathemesh Samruddhi Jadhav	Project competition 2K23, Dept of Computer Engg.& IT at PVGCOET & GKPIM, Pune	5th May 2023	Participation Competition
2	Divya Vora Vishwas Prathemesh Samruddhi Jadhav	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
3	Himalay Khachane Minal Pandey Rutuja Raut	AVINYA 2023, National Level technical Festival, by BVCOEW, Pune National Level Project competition sponsored by IETE	27th April 2023	Participation Competition
4	Sanika Wadke	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
5	Shirish Nandkar Mubin inamdar	"**Ideathon 2022-23**" competition on 9th February 2023. **Startup & Innovation Cell** at AISSMS COE	9th February 2023.	**First prize**
6	Niraj Sabale	IETE Intercollegiate Project Competition 2023 by E & Tc dept, Modern Education society's COE, Pune	24th April	Participation Competition
7	Shirish Nandkar	EUREKA 22-23 State level Innovation Idea Competition in collaboration with ESDS Software Solutions ltd organized by Ashoka Centre for Business and Computer studies nashik	April 2023	Participation Competition
8	Kiran Zure Akshay Jadhav Pravin Kunte Nisha Nelge	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
9	Kiran Zure Akshay Jadhav Pravin Kunte Nisha Nelge	State Level Project Competition in association with IEI of AISSMS COE Pune, Dept of Electrical Engineering	6th May 2023	Participation Competition
10	Kiran Zure Akshay Jadhav Pravin Kunte Nisha Nelge	AVINYA 2023, National Level technical Festival, by BVCOEW, Pune – National Level Project competition sponsored by IETE	27th April 2023	Participation Competition
11	Shivam Kalane,Ganesh Kadam , Aditya Kumkar,	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
12	Shivam Kalane,Ganesh Kadam , Aditya Kumkar,	IETE Intercollegiate Project Competition 2023 by E & Tc dept, Modern Education society's COE, Pune	24th April	Participation Competition

13	Piyush Chaudhari, Neeraj Mahajan, Nikita Patil	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
14	Piyush Chaudhari, neeraj mahajan, Nikita Patil	State Level Project Competition in association with IEI of AISSMS COE Pune, Dept of Electrical Engineering	6th May 2023	**2nd Prize**
15	Kunal Kadnor, Vaibhav Holkar, Yash Bakare	Project Competition by Softech Solutions, Pune	May 2023	Participation Competition
16	Deepali R Dalvi, Prachi Kshirsagar, Satyam Walekar	IETE Intercollegiate Project Competition 2023 by E & Tc dept, Modern Education society's COE, Pune	24th April	Participation Competition
17	Deepali R Dalvi, Prachi Kshirsagar, Satyam Walekar	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
18	Saumya Shruti Gadhave Janhavi Dabhade	Presented paper in 3rd National conference on innovation in Engg & technology at AISSMS COE Pune	31st May 2023	Paper Presentation national Conference
19	Siddhesh Maskare Aditya Dhapse Vedant Dere	Institute Level Project Competition A.Y 2022-23 Sem-II at AISSMS College of Engineering in Association with ISTE Students chapter	10th May 2023	**Ist Prize**
20	Aishwarya Patil Saurabh Jangam Himanshu Abhiraj	Regional Level Project Competition, Sponsored by DTE, regional office Pune in association with SPPU , Pune at AISSMS COE Pune	2nd may 2022	Participation Competition
21	Arindam Pal Pooja Dilip Kulkarni Prathmesh Borle	Regional Level Project competition Sponsored by DTE, regional office Pune in association with SPPU , Pune at VIT Pune	18th Jan 2022	Participation Competition
22	Parth Umbarkar	National Level poster competition on "Interdisciplinary Innovative Ideas" organized by JSCOE, hadapsar in association with IEE pune section on 25th Nov 2021	25th Nov 2021	Participation in Poster Competition
23	Sana Subhedar Miheeka Khair Mamata Patni	Presented paper in 2nd National conference on innovation in Engg & technology at AISSMS COE Pune	20st May 2022	Paper Presentation national Conference
24	Daideep Bhingarde Siddhi Deshmukh Digvijay Dere	Presented paper in 2nd National conference on innovation in Engg & technology at AISSMS COE Pune	20st May 2022	Paper Presentation national Conference
25	V. A. Gujarkar, P. D. Kulkarni, A. Pal, K. Chaudhari and V. A. Mohite,	Paper presented Remote Sensing Based Crop Monitoring System," *2022 IEEE Region 10 Symposium (TENSYMP)*, Mumbai, India, 2022, pp. 1-5, doi: 10.1109/TENSYMP54529.2022.9864416.	1-3 July 2022	Paper Presentation International conference

Fig 2.2.3.17 Student Participation in Project Exhibition

Fig 2.2.3.18 Student Certificates

Fig 2.2.3.19 Project Presentations.

Fig 2.2.3.20 Project Exhibition 2022 and 2023

Fig 2.2.3.21 Project on Smart Electric Vehicle

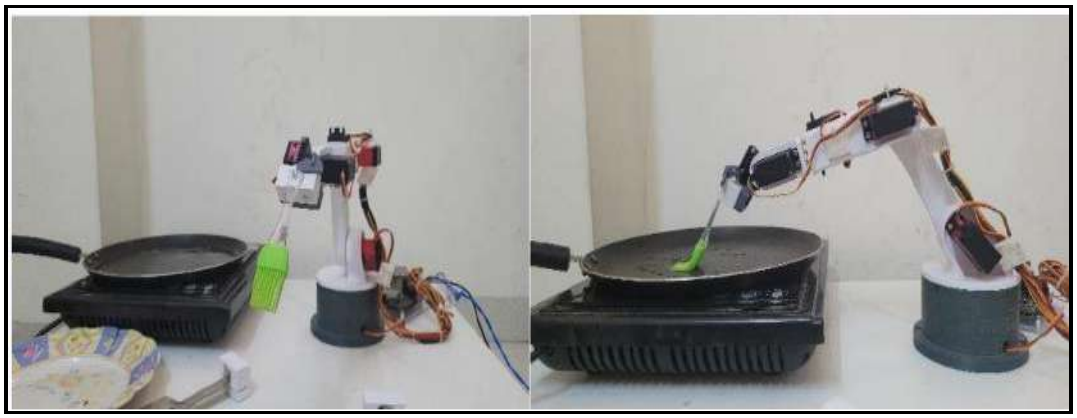


Fig 2.2.3.22 Project on Smart Chef Robo

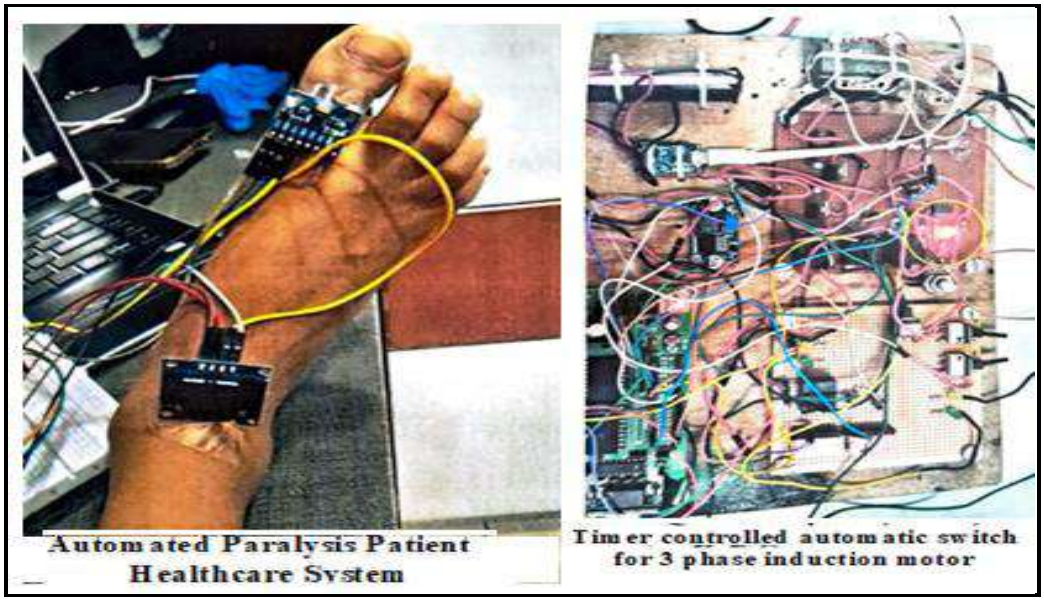


Fig 2.2.3.23 In House Projects

F: Evidences of papers published /Awards received by projects etc. (2)

Students are motivated to publish technical paper on project work in reputed conference or Journals and to participate in project competitions.

Table 2.2.3.4 List of Awards received

Sr no	Name of the Student	Competition	Date	Award
1	Shirish Nandkar Mubin inamdar	"**Ideathon 2022-23**" competition on 9th February 2023. **Startup & Innovation Cell** at AISSMS COE	9th February 2023.	**First prize**
2	Piyush Chaudhari, Neeraj Mahajan, Nikita Patil	**State Level Project Competition** in association with IEI of AISSMS COE Pune, Dept of Electrical Engineering	6th May 2023	**2nd Prize**
3	Siddhesh Maskare Aditya Dhapse Vedant Dere	**Institute Level Project Competition** A.Y 2022-23 Sem-II at AISSMS College of Engineering in Association with ISTE Students chapter	10th May 2023	**First Prize**

Below table shows the evidences of papers Published

Table 2.2.3.4 Evidences of Papers Published

A.Y 2022-23				
Sr. no	**Names of Authors**	**Title of Paper**	**Publication details**	**Link**
1	Divya Sutar, Amisha Yeole, Vrushali Gaikwad, V D Nagrale,	Wireless EV charging Robot,,	International Research Journal of Innovations in Engineering and Technology, ISSN 2581-3048,VOL 7, ISSUE5, PP325-329, May 23	Wireless EV Charging Robot International Research Journal of Innovations Engineering & Technology (irjiet.com)
2	Vedant Dere, Amita Shinde, Prachi Vast	Conditional reiterative High-Fidelity GAN inversion for image editing	Pattern Recognition, Volume 147, article id. 110068.March 2024 DOI:10.1016/j.patcog.2023.110068	https://doi.org/10.1016/j.patcog.2023.110068
3	S B Dhonde, Sapna, Vishakha Gaikwad . Pratiksha Kavthale	Underwater Communication Using Li-Fi Technology	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 140-143	Special issue July 2023 web.pdf (isteonline.in)
4	R. R. Itkarkar, Deepali R Dalvi, Prachi Kshirsagar, Satyam Walekar,	Autonomous Medical Assistive Robot	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 144-148	Special issue July 2023 web.pdf (isteonline.in)
5	S B. Dhonde,Shweta S. Jagdale, Sumedha S. Chaudhari,Tanvi P. Gavhane,.	Elevator Control Using Voice Command	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 149-152	Special issue July 2023 web.pdf (isteonline.in)
6	Yogita Lad, Samruddhi Jadhav, Prathamesh Vishwas, Diya Vora,	Design and Development of IoT Based Sanitary Napkin Vending Machine	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 153-159	Special issue July 2023 web.pdf (isteonline.in)

7	Vipin Gawai,Mr. Piyush Chaudhari, neeraj mahajan, Nikita Patil,	The Proctor – A Robot for Crop Disease Detection using IoRT and YOLO	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 160-164	Special issue July 2023 web.pdf (isteonline.in)
8	Shivam Kalane,Ganesh Kadam , Aditya Kumkar,Nitin Mawale,	Smart Cylinder Trolley for Home safety	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 165-170	Special issue July 2023 web.pdf (isteonline.in)
9	P.P.Vast1 , Siddhi Nasare2 , Ishika Chankeshwara3 , Harsh Shah4,	Design and Development Of Microstrip Antenna For Non-Invasive Glucose Testing	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 171-176	Special issue July 2023 web.pdf (isteonline.in)
10	Aman Sagar, Arjun Singh, Shreyash Parkhe, Vaishnavi Navale,	Text-To-Image AI Model Using Deep Learning	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 187-194	Special issue July 2023 web.pdf (isteonline.in)
11	Vidya Deshmukh, Kiran Sunil Zure Akshay Gautam Jadhav Pravin Kailas Kunte Nisha Balwant Nelge,	Smart Chef: Automated Cooking System with Robotic Arm	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 195-199	Special issue July 2023 web.pdf (isteonline.in)
12	Vidya Deshmukh Ayush Shetty Gaurav Singh, Rajesh Parale,	Breaking Language Barriers: Transformer Based Sentence Translation	The Indian Journal of Technical Education, ISTE Vol. 46 July 2023. 0971-3034, pp 200-206	Special issue July 2023 web.pdf (isteonline.in)

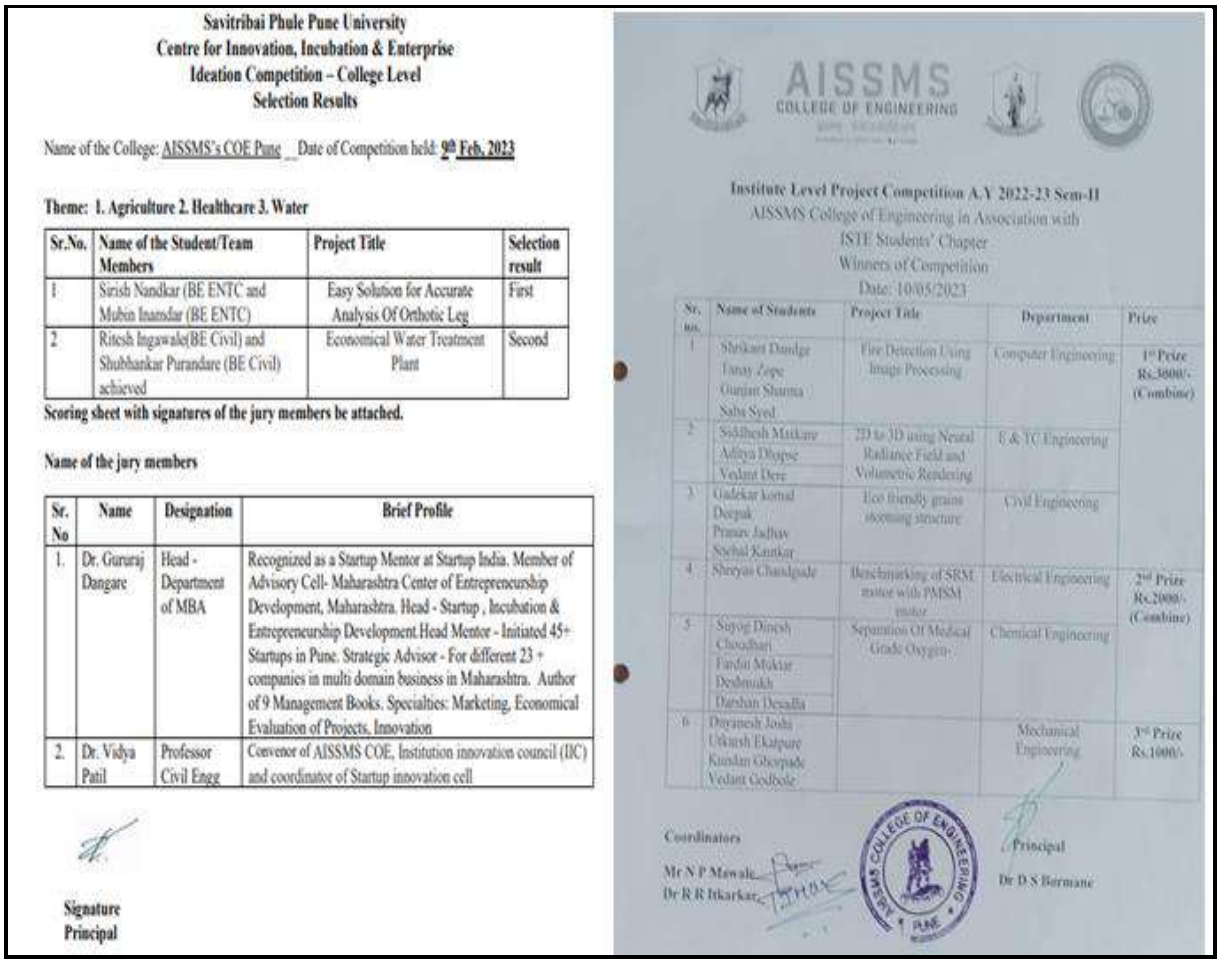
A.Y 2021-22

Sr. no	Names of Authors	Title of Paper	Publication details	Link
1	D.G. Bhalke, Daideep Bhingarde, Siddhi Deshmukh, Digvijay Dhere	Stock Price Prediction Using Long Short Term Memory	SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology, Vol. 14, Special Issue 2 (2022), ISSN : 2229 - 7111	Stock Price Prediction Using Long Short Term Memory | SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology (smsjournals.com)

			(Print), ISSN : 2454 - 5767 (Online)	
2	Santosh Dhekale, Mamta Patni, Miheeka Khair, Sana Subhedar	Voice Tone Analyzer Using Ml	SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology, Vol. 14, Special Issue 2 (2022), ISSN : 2229 - 7111 (Print), ISSN : 2454 - 5767 (Online)	Voice Tone Analyzer Using Ml | SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology (smsjournals.com)
3	V. A. Gujarkar, P. D. Kulkarni, A. Pal, K. Chaudhari and V. A. Mohite,	Remote Sensing Based Crop Monitoring System	2022 IEEE Region 10 Symposium (TENSYMP), Mumbai, India, 2022, pp. 1-5, doi:10.1109/TENSYMP54529.2022.9864416	Remote Sensing Based Crop Monitoring System | IEEE Conference Publication | IEEE Xplore

A.Y 2020-21

Sr. no	Names of Authors	Title of Paper	Publication details	Link
1	S B Dhekale, Komal Jadhav, Diksha Ingle, Mansi Shirode	Smart Mirror Using Raspberry Pi	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, p-ISSN: 2347-6710 ,Impact Factor: 7.569 Volume 10, Issue 7, July 2021 DOI:10.15680/IJIRSET.2021.1007252	252_Smart_NC.pdf (ijirset.com)
2	R R Itkarkar, Shivam Deshmuskh, Aniket Dalvi, Anushka Tidke	Detection And Diagnosis of Covid-19 Using Pnuemonia	SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Volume 14, Special Issue (2), 391-396, Dec 2022.	Detection And Diagnosis of Covid-19 Using Pnuemonia | SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology (smsjournals.com)



Savitribai Phule Pune University
Centre for Innovation, Incubation & Enterprise
Ideation Competition – College Level
Selection Results

Name of the College: AISSMS's COE Pune Date of Competition held: 9th Feb. 2023

Theme: 1. Agriculture 2. Healthcare 3. Water

Sr.No.	Name of the Student/Team Members	Project Title	Selection result
1	Sirish Nandkar (BE ENTC and Mubin Inamdar (BE ENTC)	Easy Solution for Accurate Analysis Of Orthotic Leg	First
2	Ritesh Ingawale(BE Civil) and Shubhankar Purandare (BE Civil) achieved	Economical Water Treatment Plant	Second

Scoring sheet with signatures of the jury members be attached.

Name of the jury members

Sr. No	Name	Designation	Brief Profile
1.	Dr. Gururaj Dangare	Head - Department of MBA	Recognized as a Startup Mentor at Startup India. Member of Advisory Cell- Maharashtra Center of Entrepreneurship Development, Maharashtra. Head - Startup , Incubation & Entrepreneurship Development.Head Mentor - Initiated 45+ Startups in Pune. Strategic Advisor - For different 23 + companies in multi domain business in Maharashtra. Author of 9 Management Books. Specialties: Marketing, Economical Evaluation of Projects, Innovation
2.	Dr. Vidya Patil	Professor Civil Engg	Convenor of AISSMS COE, Institution innovation council (IIC) and coordinator of Startup innovation cell

Signature
Principal

AISSMS COLLEGE OF ENGINEERING

Institute Level Project Competition A.Y 2022-23 Sem-II
AISSMS College of Engineering in Association with
ISTE Students' Chapter
Winners of Competition
Date: 10/05/2023

Sr. no.	Name of Students	Project Title	Department	Prize
1	Shrikant Dandge Tanay Zope Gunjan Sharma Sahil Syed	Fire Detection Using Image Processing	Computer Engineering	1st Prize Rs.3000/- (Combine)
2	Siddhesh Matkare Aditya Dhopte Vedant Dere	2D to 3D using Neural Radiance Field and Volumetric Rendering	E & TC Engineering	
3	Gadekar komal Deepak Pranav Jadhav Snehal Kankar	Eco friendly grains storeing structure	Civil Engineering	
4	Shreyas Chandgude	Benchmarking of SRM motor with PMSM motor	Electrical Engineering	2nd Prize Rs.2000/- (Combine)
5	Supyog Dinesh Chaudhari Farduri Muktar Deshmukh Darshan Desadla	Separation Of Medical Grade Oxygen	Chemical Engineering	
6	Dnyanesh Joshi Utkarsh Ekatpure Kundan Ghorpade Vedant Godbole		Mechanical Engineering	3rd Prize Rs.1000/-

Coordinators
Mr N P Mawale
Dr R R Itkarkar

Principal
Dr D S Bormane

Fig 2.2.3.24 Project Competition/Exhibhition Winners

AISSMS COLLEGE OF ENGINEERING

Department of Electrical Engineering

CERTIFICATE OF EXCELLENCE

Awarded to Mr/Ms Pratik Dinesh Chaudhari in appreciation of his/her Second prize / participation / as event coordinator / volunteer in a **State Level Project Competition** organized in association with Institution of Engineers (India) at AISSMS College of Engineering Pune, held on 06th May 2023.

Prof. V. V. Kulkarni — Quality Coordinator
Prof. V. N. Tarange
Dr. A. A. Godbole — HOD
Dr. D. S. Bormane — Principal

Fig 2.2.3.25 Project Competition Winners

2.2.4 Initiative related to industry interaction (15)

A. Industry supported laboratories

Department have two industry supported laboratories

1. Center of Excellence (BOTLAB)
2. AI & ML Integrated IoT Laboratory

1. Centre of Excellence (BOTLAB)

Centre of excellence in the field of robotics and automation is established in department in association with Automation Anywhere Pvt. Ltd. College and Department teachers' and students' undergone basic and advance level training under center of excellence.

AUTOMATION ANYWHERE Go be great. Inauguration of Centre of Excellence	 Inauguration of Centre of Excellence
 Centre of Excellence	 Training program organized

Figure 2.2.4.1: Inauguration of Centre of excellence

Impact:

- MoU Signed in 2019 and Revised in May 2023.
- 500 students got basic training.
- 53 Students completed advanced training.
- 3-day training for students and faculty.
- After successful training Mr. Arindam Pal got third prize in Hackathon event organized by Automation Anywhere Pvt. Ltd. (Apple I- Pad).
- Advanced five days faculty training at Bangalore.
- Two-day A-lister training for students at Bangalore.
- Advanced certification completed by 39 students.

2. AI and ML Integrated IoT Laboratory:

AI and ML Integrated IoT Laboratory is an AICTE funded project under MODROB and Industry sponsored Laboratory (Netalla Innovations Pvt. Ltd.)

Table 2.2.4.1: Amount Sanction by AICTE & Netella Innovations Pvt. Ltd

Sr. No.	Expenditure by	Amount
1	AICTE	6,91,429/-
2	Amount paid by sponsoring industry Netalla Innovations Pvt. Ltd (Industry Sponsored)	7,83,301/-
	Total amount Sponsored	**14,74,730/-**
3	AISSMS Contribution	5,00,000/-
	Total Cost of Equipment	**19,74,730/00**

Objective

1. To provide a platform for students to gain practical experience in AI-ML and IoT technologies.
2. To promote learning environment, problem-solving, critical thinking, and creativity among the teachers and students in AI-ML and IoT domain.
3. To establish partnerships with industry leaders.
4. To bridge the gap between academia and industry in AI-ML and IoT domain.

Utilization:
BE and TE students utilize laboratory to implement

- BE Project
- MIoT Course Practical
- TE Mini Project in the domain of AI-ML and IoT.

B. Industry involvement in the program design and partial delivery of any regular courses for students.

Our Institute is affiliated to SPPU, Curriculum is designed by BOS, E and TC of SPPU Pune. Industry Experts are invited for their suggestions on recent development in Industry. Their suggestions are incorporated in the revised curriculum.

Conduction of Technical Workshop/ Expert lectures / Seminar by Industrial Experts.

Department conducts hands on workshops, Expert talk and seminars by Industry Experts for the partial delivery of course content.

Table 2.2.4.2: Lectures by industry expert

Sr. No.	Description of Event	Date (s) DD/MM/YY	Resource Person / Organization	Participation Details (No of Students, Class)	Faculty Coordinator
AY 2023-24					
1	IT Infrastructure and P production services and opportunities	25/08/2023	Santosh Rangdal , Senior Vice Presidents, Bank of New York Mellon	30	Dr. S. B. Dhonde
2	IPR Reality and facts	29/08/2023	Dr. S B Mohite CS 2S Technology, Pune	30	Dr. S. B. Dhonde

3	Climate Change and Awareness on Importance of solar Energy" & Solar Yatra by Energy Swaraj Foundation	31/08/2023	Prof. Chetan Singh Solanki, Prof IIT Mumbai, Department of Science and Engineering	200	N. P. Mawale
4	'Robotics in Dynamic Environment' & RoboSphere	12/10/2023	Shittal Chiddarwar, Professor VNIT, Nagpur	80	Dr. R. R. Itkarkar
5	'Dive into Practical Miniproject'	24/01/2024	Mr. Vinay Sidwadkar CDAC, Banglore	53	V. S. Navale, Dr. P. P. Vast
6	Project selection and Planning	25/01/2024	Mr. D. R. Patil, Vice President-Operations	40	Mrs. G. D. Salunke
AY 2022-23					
1	Expert Talk on "Electric Vehicle"	9/11/2022	Mr. Hemant Padhye, Pro-Business Innovations	117	Mrs. V. S. Navale
2	Expert Talk on 'Search Engine Optimization'	14/02/2023	Ms. Spurti Sushil Icfaian Business School, Pune	51	Dr. K. B. Chaudhari Mr. N. P. Mawale
AY 2021-22					
1	Internship and Innovation as a Career Opportunity.	25/08/2021	Mr. Suryakant Dodmise, SIBIC Business Incubator, Founder and Chief Executive Officer	90	Dr. K. B. Chaudhari Ms. V. D. Nagrale
2	'Recent Trends and Technologies in FOC'	19/04/2022	Mr. Sudam Chavan	70	Dr. P. P. Vast

			Deputy General Manager Tata Communications		
3	Students Internship.	26/08/2021	Speaker: Mr. Rajesh Vartak	100	Ms. V. V. Deshmukh
4	Expert Talk on Battery Management and Designing – A Practical Approach.	13/11/2021	Mr. Rushab Shingi, Design Engineer, AX Design Pune	100	Mrs. R. R. Itkarkar
5	Expert Lecture on GSM Technology and 4G LTE technology	06/04/2022	Mr. Nilesh Wankhede from BSNL Pune	67	Mrs. R. R. Itkarkar
AY 2020-21					
1	Organized webinar on 'Introduction to industrial IoT and its prospect'	06/11/2020	Mr. Sandeep Shroff	100	Mr. S. B. Dhekale
2	Financial Management	08/07/2020	Mr. Siddharth Shah,	200	Ms. V. V. Deshmukh
3	IEEE sponsored webinar on Embedded System & RTOS	30/9/2020	Mr. Dnyanesh Joshi Senior Software Engineer, Magic Leap, San Jose, California	100	Dr. P. P. Vast

C. Impact analysis of industry institute interaction and actions taken there of

The department takes following initiatives related to industry interaction by organizing:

- Guest lectures
- Industrial visits
- MOUs
- Sponsored projects
- Internship

Table 2.2.4.3: The number of activities conducted related to each industry institute interaction

Sr. No.	Activities	Number of Activities Conducted for A.Y.			
		2023-24	2022-2023	2021-2022	2020-2021
01	Guest Lecture by Industry Person	06	06	29	31
02	Industrial Visits	02	03	02	01
03	Memoranda of Understanding	02	03	09	02
04	Sponsored Projects	02	04	02	01
05	Internship Training done by students	63	68	35	41

One Faculty One Industry:

One faculty one industry is the best practice followed by department. Each faculty identify at least one industry and will take some activities like, seminar, expert talk, visit, project sponsorships, Internship for students.

Table 2.2.4.4: List of MOU's identified industry by faculties are follows

Sr. No.	Name of Company	Year	Duration in Years
1	Seed Infotech, ltd	2023-24	3
2	Parkomate Solutions LLP, Pune	2023-24	3
3	Automation Anywhere	2022-23	3
4	Diligence Tech. Pvt. Ltd.	2022-23	5
5	Nexus Infosec L L C , USA	2022-23	5
6	Sunshine Powertronics Pvt. Ltd. Pune	2021-22	5
7	Firenest Reality Pvt Ltd	2021-22	5

8	Startech Enginneers, Mumbai	2021-22	3
9	Automate Engineering	2021-22	1
10	Elon Power, Pune	2021-22	5
11	PMP Automation Pvt Ltd	2021-22	3
12	CMS Digital Automation Pune	2021-22	3
13	Wish Energy, pune	2021-22	3
14	Softcon Pvt Ltd	2021-22	5
15	MICROCON Power Electronics Pune	2020-21	3
16	Jha Scientific Research Pvt. Ltd	2020-21	1

Table 2.2.4.5: Sponsored Project List

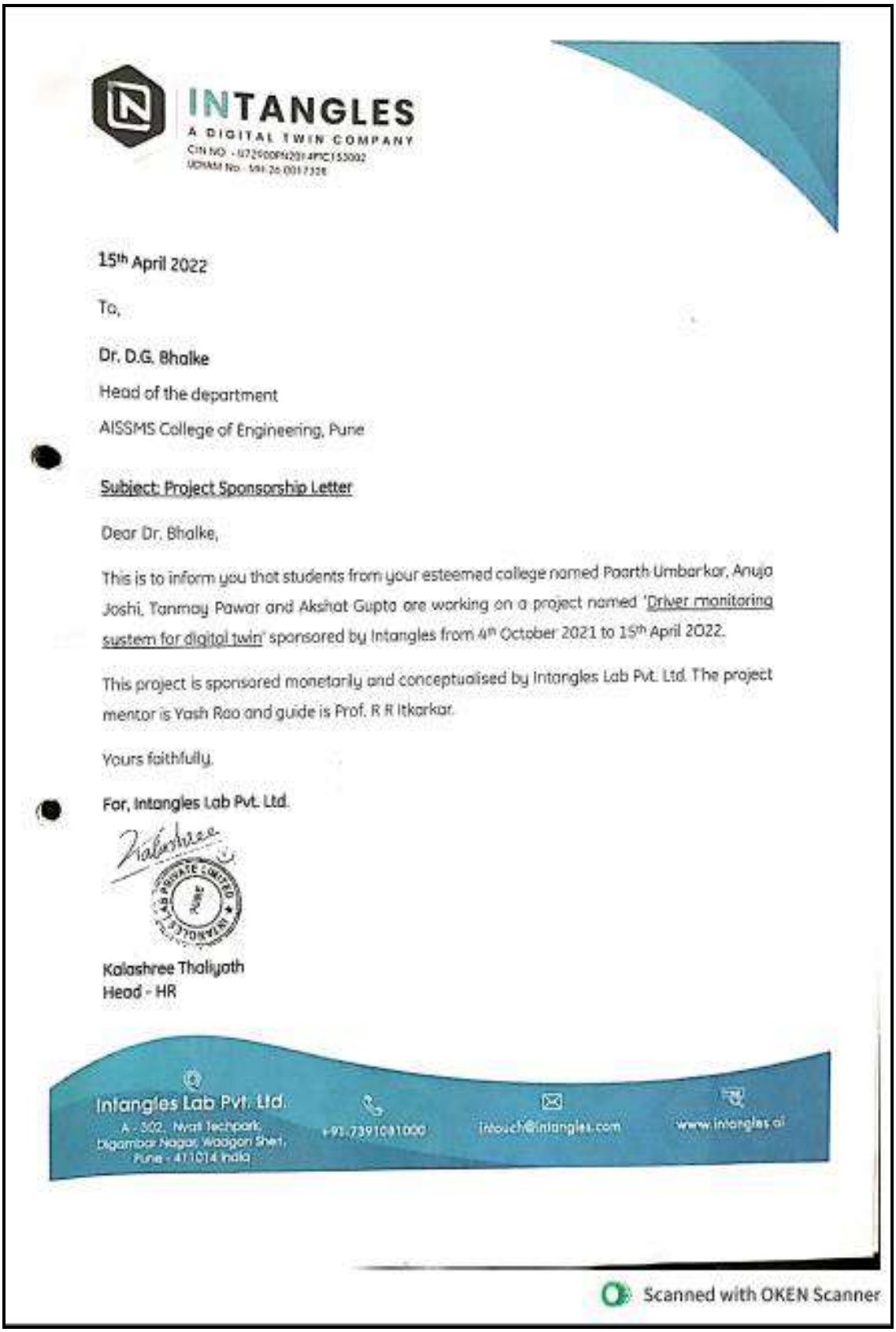
Sr. No.	Name	Guide	Area	Title	Sponsorship	In-house
2023-24						
1	Atharv Hapse, Ketki Nanaware, Vedant Dhopate	MDr. V. V. Deshmukh	Automation	Multiple Interface Configurable Smart IoT Device	Sunshine Powertronics Pvt ltd, Pune	20
2	Virakshi Birajdar, Priti Sagar	Dr. P. P. Vast	Automation	Smart parking guidance system using wireless sensor network	Parkomate Solution LLP, Kalwa-400605	
2022-23						
1	Saumya , Shruti Gadhave , Shruti Gadhave	Ms. V. D. Nagrale	Embedded+IOT	Designing a control system and software application to monitor advertisement/display screen	Brand Publicity Graphic Designing & Printing Pune	**21**
2	Chaudhari Piyush Dinesh, Mahajan Neeraj Vinod, Patil Nikita Ajitsinh	Mr. V. B. Gawai	IOT+Automation	The crop monitoring robot using IoRT	Automate Engineering Pune	
3	Samruddhi Jadhav, Patil Nikita Ajitsinh, Diya Vora	Mrs. Y. P. Lad	Automation	Sanitory Napkin vending Machine	Indotech Industries Pvt Ltd, Pune	
4	Kunal Kadnor	Mr. V B Gawai	Automation	Solar Cleaning System	Atomic Enterprises Pune	

2021-22						
1	Kedar Pawar, Ishan Gupta, Rutuja Kothari, Abhishek Khedkar	Mr. V B Gawai	Embedded Systems	CNC PCB Router	My Future Town Pune	**18**
2	Ishan Gupta, Rutuja Kothari, Abhishek Khedkar, Abhishek Khedkar	Mrs. R. R. Itkarkar	AI + IOT	Driver Monitoring System for Digital Twin	Intangles Lab Pvt Ltd, Pune	
2020-21						
1	Komal Jadhav, Diksha Ingale, Mansi Shirode	Mr. S. B. Dhekale	machine learning, image processing	Smart mirror	ioCare Pvt. Ltd Pune	19

Table 2.2.4.6: Impact analysis of industry institute interaction

Sr. No.	**Name of the Industry**	**Project**	**Workshop/ Expert Lecture**	**Placement**
1	INTANGLES, Pune	Sponsored Project		Paarth Umberkar, Anuja Joshi
2	Automation Anywhere, Pune.	-	Essential certifications: 500, Advance Certifications: 50	-
3	Softcon India Pvt Ltd, Pune.	-	Sponsorship for 17th AISSMSET-2022 Rs. 5000/-	-
4	IMFS, Pune.	-	Expert Lectures on Higher Study: 05, Global Edufest: 1, Sponsorship: 25,000/- for AISSMSET-2022 and 1,20,000/- for ICOGE-2023	
5	Dzine Arena Pune.	-	Industrial Visit on 19 march 2018 & 14 Oct 2019 for TE students, exposure to Embedded and Industrial Projects.	
6	Kone Crane, Pune	**Consultancy:** Innovative Material Handling Ideas and Concepts (2020-21)		Students: Sahil Vora & Omkar Darekar
		New safety enhancing ideas for overhead cranes for Kone cranes (2021-22)		Chaudhari Piyush Dinesh,

		Implementation of Image detection	Aashutosh singh Pardeshi, Walekar Satyam Shrikant, Saumya
		methodology for visual inspection of crane parts (2022-23)	IyerVignesh Sridhar, Amble Vijay Dattatray



INTANGLES
A DIGITAL TWIN COMPANY

15th April 2022

To,

Dr. D.G. Bhalke
Head of the department
AISSMS College of Engineering, Pune

Subject: Project Sponsorship Letter

Dear Dr. Bhalke,

This is to inform you that students from your esteemed college named Paarth Umbarkar, Anuja Joshi, Tanmay Pawar and Akshat Gupta are working on a project named 'Driver monitoring system for digital twin' sponsored by Intangles from 4th October 2021 to 15th April 2022.

This project is sponsored monetarily and conceptualised by Intangles Lab Pvt. Ltd. The project mentor is Yash Rao and guide is Prof. R R Itkarkar.

Yours faithfully,

For, Intangles Lab Pvt. Ltd.

Kalashree Thaliyath
Head - HR

Intangles Lab Pvt. Ltd.
A - 302, Nyati Techpark
Bigambar Nagar, Wadgaon Sheri,
Pune - 411014 India
+91 7391081000
intouch@intangles.com
www.intangles.ai

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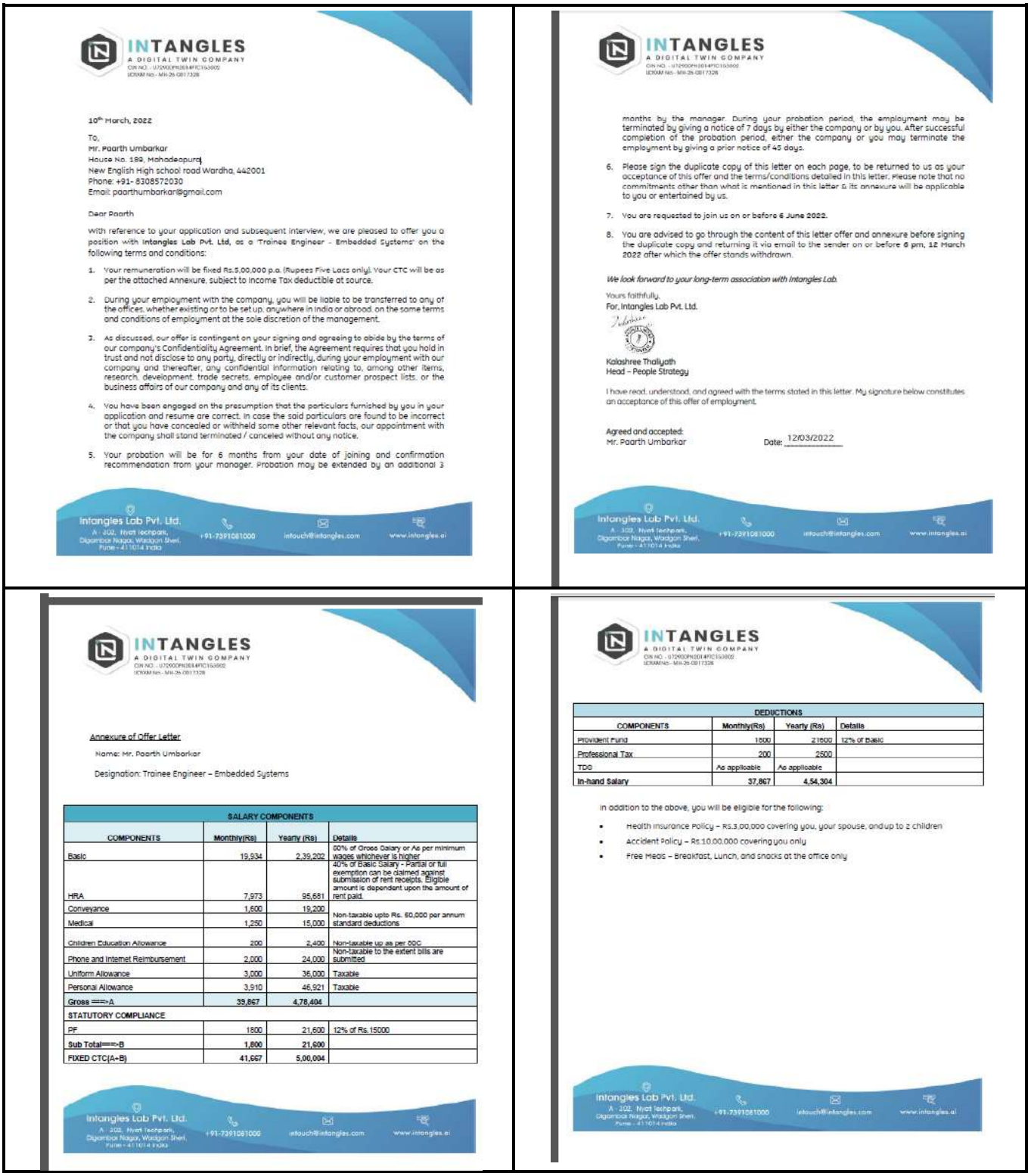
Figure 2.2.4.3: Project Sponsorship Letter



INTANGLES
A DIGITAL TWIN COMPANY

10th March, 2022

To,
Mr. Paarth Umbarkar
House No. 189, Mahadeopuri
New English High school road Wardha, 442001
Phone: +91- 8308572030
Email: paarthumbarkar@gmail.com

Dear Paarth

With reference to your application and subsequent interview, we are pleased to offer you a position with **Intangles Lab Pvt. Ltd**, as a 'Trainee Engineer - Embedded Systems' on the following terms and conditions:

1. Your remuneration will be fixed Rs.5,00,000 p.a. (Rupees Five Lacs only). Your CTC will be as per the attached Annexure, subject to Income Tax deductible at source.
2. During your employment with the company, you will be liable to be transferred to any of the offices, whether existing or to be set up, anywhere in India or abroad, on the same terms and conditions of employment at the sole discretion of the management.
3. As discussed, our offer is contingent on your signing and agreeing to abide by the terms of our company's Confidentiality Agreement. In brief, the Agreement requires that you hold in trust and not disclose to any party, directly or indirectly, during your employment with our company and thereafter, any confidential information relating to, among other items, research, development, trade secrets, employee and/or customer prospect lists, or the business affairs of our company and any of its clients.
4. You have been engaged on the presumption that the particulars furnished by you in your application and resume are correct. In case the said particulars are found to be incorrect or that you have concealed or withheld some other relevant facts, our appointment with the company shall stand terminated / canceled without any notice.
5. Your probation will be for 6 months from your date of joining and confirmation recommendation from your manager. Probation may be extended by an additional 3 months by the manager. During your probation period, the employment may be terminated by giving a notice of 7 days by either the company or by you. After successful completion of the probation period, either the company or you may terminate the employment by giving a prior notice of 45 days.
6. Please sign the duplicate copy of this letter on each page, to be returned to us as your acceptance of this offer and the terms/conditions detailed in this letter. Please note that no commitments other than what is mentioned in this letter & its annexure will be applicable to you or entertained by us.
7. You are requested to join us on or before 6 June 2022.
8. You are advised to go through the content of this letter offer and annexure before signing the duplicate copy and returning it via email to the sender on or before 6 pm, 12 March 2022 after which the offer stands withdrawn.

We look forward to your long-term association with Intangles Lab.

Yours faithfully,
For, Intangles Lab Pvt. Ltd.

Kalashree Thaliyath
Head – People Strategy

I have read, understood, and agreed with the terms stated in this letter. My signature below constitutes an acceptance of this offer of employment.

Agreed and accepted:
Mr. Paarth Umbarkar Date: 12/03/2022

Intangles Lab Pvt. Ltd.
A - 202, Nyati Techpark, Digambar Nagar, Wadgaon Sheri, Pune - 411014 India
+91-7391081000
intouch@intangles.com
www.intangles.ai

Annexure of Offer Letter

Name: Mr. Paarth Umbarkar

Designation: Trainee Engineer – Embedded Systems

SALARY COMPONENTS			
COMPONENTS	Monthly(Rs)	Yearly (Rs)	Details
Basic	19,934	2,39,202	50% of Gross Salary or As per minimum wages whichever is higher
HRA	7,973	95,681	40% of Basic Salary - Partial or full exemption can be claimed against submission of rent receipts. Eligible amount is dependant upon the amount of rent paid.
Conveyance	1,600	19,200	
Medical	1,250	15,000	Non-taxable upto Rs. 50,000 per annum standard deductions
Children Education Allowance	200	2,400	Non-taxable up as per GOI
Phone and Internet Reimbursement	2,000	24,000	Non-taxable to the extent bills are submitted
Uniform Allowance	3,000	36,000	Taxable
Personal Allowance	3,910	46,921	Taxable
Gross ===>A	39,867	4,78,404	
STATUTORY COMPLIANCE			
PF	1800	21,600	12% of Rs.15000
Sub Total===>B	1,800	21,600	
FIXED CTC(A+B)	41,667	5,00,004	

DEDUCTIONS			
COMPONENTS	Monthly(Rs)	Yearly (Rs)	Details
Provident Fund	1800	21600	12% of Basic
Professional Tax	200	2500	
TDS	As applicable	As applicable	
In-hand Salary	37,867	4,54,304	

In addition to the above, you will be eligible for the following:

- Health Insurance Policy – Rs.3,00,000 covering you, your spouse, and up to 2 children
- Accident Policy – Rs.10,00,000 covering you only
- Free Meals – Breakfast, Lunch, and snacks at the office only

Figure 2.2.4.4: Offer Letter from same company

2.2.5 Initiative related to industry internship/summer training (15)

A. Industrial training/tours for students

Department organizes Industrial tours for students to bridge the gap between theoretical learning and Industry practice. Department also motivate students for Industrial training.

Table 2.2.5.1: Industry Tour organized

Sr. No.	Visited Industry	Date	No. of Students	Coordinator	PO	PSO
			2023-24			
1	Megha Embedded India Systems Pvt. Ltd. Chakan, Nighoje, Pune	27/09/2023	36 (SE)	Mrs. G. D. Salunke	1,6,7,10,12	1,2
2	Megha Embedded India Systems Pvt. Ltd. Chakan, Nighoje, Pune	11/10/2023	78 (TE, BE)	Dr. R. R. Itkarkar	1,6,7,10,12	1,2
			2022-23			
1	Dankel Tech, Pune	7/11/2022	86	Dr. R. R. Itkarkar	1,6,7,10,12	1,2
2	GMRT, Khodad (Narayangaon)	27/01/2023	50	Mr. S. B. Dhekale Mr. N. P. Mawale Mrs. Y. P. Lad	1,6,7,10,12	1,2
3	Industry /Visit to MAPRO, Satara.	06/05/2023	40	Mrs. V. V. Deshmukh	1,6,7,10,12	1,2
			2021-22			
1	Industry /Visit to MAPRO, Satara.	08/04/2022	70	Mrs. V. V. Deshmukh	1,6,7,10,12	1,2
2	CSM Digital Technology (Chinchwad Station, Pune)	04/10/2021	34 online	Ms. P. P. Tayade	1,6,7,10,12	1,2
			2020-21			
1	Elon Power Pvt Ltd.	26/02/2021	50	Mr. V. B. Gawai	1,6,7,10,12	1,2

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 grade A+)

Industrial Tour Report

Date: 6th May 2023

Name of Event: "Industrial Tour to Mapro Food Park, Shendurjane, Tal-Wai, Dist, Satara.

Event Co-ordinator: Dr. V. V. Deshmukh and Mr. N. P. Mawale

Industry Co-ordinator: Mr. Vijay Bhilare

Participants: SE Electronics and Telecommunication Engineering Students

No. of Participants: 40 Students + 3 (2 teaching + 1 Non-teaching) Faculty

Department of Electronics and Telecommunication Engineering had organized an industrial visit on 6th May 2023, Saturday at Mapro Food Park Shendurjane, Tal- Wai, Dist. Satara to study the PLC automation manufacturing process and experience and the current trends in automation like Human-machine interface, SCADA system. Students experienced the industrial manufacturing process. Total of 40 SE students along with faculty members visited the plant.

Objectives:

The visit arranged the following Objectives:

- PLC industrial applications.
- Food manufacturing process.
- To create interest of students towards industrial automation

Outcome:

- Students understood the real time PLC based automation in industries.
- HMI and PLC interface.

- Students were made aware about current industrial automation

Conclusion:

- The Visit gave students the understanding about the applications of PLC for industrial automation. How PLC and HMI are effectively used for automation. Students also benefited with the current industrial manufacturing process. Students also came to know the journey of an entrepreneur Mr. Vora (Founder of Mapro Pvt. Ltd.) how he established India's number one fruit crush manufacturing Industry.

Figure 2.2.5.1: Students at Mapro

B. Industrial/internship/summer training of more than two weeks and post training Assessment

Table 2.2.5.2: Students undergone Industrial Internships 2023-24

Sr. No.	Name of students	Name of Industry / Company/ MNC / Factory / Plant internship done	Date of Joining	Date of Completion
1	Gaurav Makarand Kale	CyberArt Solutions Pvt LTD	12/12/2023	1/9/2024
2	Mohammad Sahil Rafique Shaikh	CSM Digital Technologies	12/11/2023	12/12/2024
3	Sakshi Vikas pawar	TWINTECH CONTROL SYSTEMS PVT.LTD	12/18/2023	1/18/2024
4	Atharva Sanjay Ardhapurkar	CSM Digital Technologies	12/11/2023	1/11/2024
5	Lekhansh Ghyar	Arnav Industries	12/15/2023	1/15/2024
6	Dhananjay Anil Gunjal	Ariha Enterprises	12/21/2023	2/21/2024
7	Saee Purushottam Murkute	Refu drive India pvt ltd	12/25/2023	2/29/2024
8	Vijay Sominath Dhakane	Sunshine Powertronics Pvt.Ltd.	12/13/2023	1/12/2024
9	Samrudhi Bandi	Cummins India Limited	12/15/2023	1/15/2024
10	Sharmad Anand Bhandari	CIMER AUTOMATION PVT LTD	12/15/2023	1/15/2024
11	Ashish Ankush Wanve	Infeanet digital marketing	12/17/2023	1/20/2024
12	Janvi Mahapadi	DRDO	12/18/2023	3/18/2024
13	Prajwal Karande	Sunshine powertronics Pvt. Ltd.	12/13/2023	1/12/2024
14	Devendra Dnyaneshwar Varule	Elite Software Pvt Ltd, Pune	12/11/2023	1/13/2024
15	Vaishnavi Vishwas Patil	Pilon Connected Solutions Pvt. Ltd.	12/12/2023	1/12/2024
16	Anisha kandhare	Infinity industries	12/5/2023	1/4/2024
17	Srushti petkar	Sunshine Powertronics pvt.ltd.	12/12/2023	1/10/2024
18	Aditi Rajendra Ingole	Recon Inverters, Wardha	12/11/2023	1/10/2024
19	Likhita Pavan Bujade	PiSolve Systems Pvt. Ltd.	7/20/2023	1/20/2024
20	Snehal Pramod Borhade	Proexcel Systems	12/12/2023	1/13/2024
21	Kajal Santosh Kumbhar	Infeanet Digital Solution and Web Media	12/17/2023	1/20/2024
22	Aneesh Kulkarni	CSM Digital Technologies	12/11/2023	1/11/2024
23	Rutik Rajendra Kale	Sunshine Powertronics Pvt.Ltd	12/13/2023	1/12/2024
24	Fardin kazi	Om Marketing	12/12/0023	1/9/0024
25	Tanishq Jadhav	Laconiq Infotech Pvt Ltd	12/14/2023	1/29/2024
26	Omkar Ajit Vartak	MEG-NXT Ceinsys, Baner,	12/15/2023	1/15/2024

		Pune		
27	Anand K Maratha	Sunshine Powertronics pvt ltd	12/13/2023	1/12/2024
28	Vaishnavi Sawale	Sunshine powertronics	12/13/2023	1/12/2024
29	Dnyaneshwar Tavjiba Ghodke	Sunshine Powertronics Pvt Ltd	12/13/2023	1/12/2024
30	Akash Sharanappa Kambar	Dran Engineers Pvt Ltd.	1/6/2024	2/3/2024
31	Apoorva Sandeep Jadhav	Ajspire Technologies pvt. Ltd	12/11/2023	1/13/2024
32	Samruddhi Chandgude	Ajspire Technologies Pvt Ltd	12/11/2023	1/13/2024
33	Mandar Kulkarni	CSM digital technologies	12/11/2023	1/11/2024
34	Aniket Govindrao Patil	Sunshine Powertronics	12/13/2023	1/12/2024
35	Sejal Shitalkumar Bobade	Positron Additive	12/8/2023	1/6/2024
36	Keshav Suresh Bagad	Emergeflow Technologies Pvt Ltd	12/6/2023	1/25/2024
37	Sunayana Gaikwad	Proexcel System	12/12/2023	1/13/2024
38	Om Pankaj Kalantri	Urjaa Creative Solutions	12/14/2023	1/12/2024
39	Pranav Kulkarni	Sunshine Powertronics	12/13/2023	1/12/2024
40	Yash Balasaheb Ugare	CSM Digital Technology	12/11/2023	1/11/2024
41	Shriyog Shindkar	CSM Digital technologies	12/11/2023	1/11/2024
42	Kulkarni Vasudha Dilip	Techroid Solutions pvt ltd	12/12/2023	1/12/2024
43	Sanika Hingmire	LACONIQ INFOTECH	12/14/2023	1/29/2024
44	Shreya Prashant Sirsale	Concise Engineering Solutions Pvt Ltd Chakan	12/11/2023	1/11/2024
45	Ojas Dhadge	Laconiq Infotech Pvt. Ltd.	12/14/2023	1/29/2024
46	Arya Dombe	Proexcel systems	12/13/2023	1/12/2024
47	Jay Prakash Patel	CSM digital technology	12/18/2023	1/18/2024
48	Ashutosh Waghavkar	Sunshine Powertronics Pvt. Ltd.	12/13/2023	1/12/2024
49	Janhavi Pujare	Electronics	12/11/2023	1/12/2024
50	Jagdish Gangaram Palaskar	CSM Digital Technologies	12/11/2023	1/11/2024
51	Rutuja Pramod Chikane	Aarya Engineering	12/18/2023	1/23/2024
52	Abhijeet Lahu Gaikwad	Aarya Engineering	12/18/2023	1/23/2024
53	Samruddhi Mahesh Kolapkar	Trident Engineers	12/18/2023	1/18/2024
54	Kedar Pramod Mane	C.S.M. Digital Technology	12/11/2023	1/11/2024
55	Pranoti Shiva	Prompt Engineering	12/15/2023	1/15/2024

Table 2.2.5.3: Students undergone Industrial Internships 2022-23

Sr. No.	Name of the student	Name of Industry / Company/ MNC / Factory / Plant internship done	Date of Joining	Date of Completion
1	Bhoskar Pradnya Sarjerao	Automate Engineer, Narhe	21/01/2023	21/02/2023
2	Angre Kishor	Suven Consultants & Technology Pvt. Ltd.	10/12/2022	31/01/2023
3	Atharva Shelke	Sunshine Powertronicspvt ltd.	05/12/2022	01/02/2023
4	Ajay Atkire	Suven Consultants	10/12/2022	31/01/2023
5	Virakshi Birajdar	Codered pvt.Ltd	03/12/2022	10/01/2023
6	Shubham Bodhe	Suven Consultants	10/12/2022	31/01/2023
7	Soham Dhananjay Borawake	YBI FOUNDATION	16/01/2023	14/07/2023
8	Nupur Chandane	Suven Consultants	10/12/2022	31/01/2023
9	Praveen choudhary	CSM digital technology	02/12/2022	25/12/2022
10	Siddhant Suresh Chougale	Suviraj Services India Pvt Ltd	05/12/2022	03/02/2023
11	AniketDaddi	Gravity Industries Pvt Ltd	21/01/2023	31/01/2023
12	Vaishnavi Dalave	Elite Software	05/12/2022	03/02/2023
13	Desai Pranav Sanjay	Suven Consultants & Technology pvt. ltd.	10/12/2022	31/01/2023
14	Niranjan Nivrutti Devale	Sai mhalhar Electra	05/12/2022	25/01/2023
15	Yogesh Vinod Devkate	Oasis infobyte	05/01/2023	21/01/2023
16	Rishi Gandhi	WiSH Energy Solutions PvtLTd	05/12/2022	03/02/2023
17	OmkarGodase	VCB electronics	02/01/2023	16/02/2023
18	Aniruddha Goswami	AP Software solutions , pune	01/12/2022	25/01/2023
19	Aditya Sanjay Gujar	Wish Energy Solutions Pvt. Ltd, Wagholi Pune	02/12/2022	03/02/2023
20	Maithili Gujar	Automate Engineering, Narhe, Pune	22/01/2023	22/02/2023

21	Atharv Hapse	Automate Engineering	14/12/2022	14/01/2023
22	Hirave Akshay Dattatray	Oasis Infobyte	01/01/2023	31/01/2023
23	Manali Gopal Jadhav	Oasis infobyte. Pvt. Lmt	01/01/2023	26/01/2023
24	Anjali Manik Jagtap	Automate Engineering	22/01/2023	22/02/2023
25	Janhvi Shendre	Bhagyashree IT solutions	02/01/2023	17/02/2023
26	Atharva Kadam	Automate Engineering	22/01/2023	22/02/2023
27	Vishwaja Manish Kadu	Elite Softwares ,Pune	19/12/0022	03/02/0023
28	Ruthvik Kamble	AUTOMATE ENGINEERING	14/12/2022	14/01/2023
29	Arnav Kawale	Hawkscode	14/01/2023	14/02/2023
30	Saifoddin Kazi	Elite Softwares	12/12/2022	10/02/2023
31	Gaurav Santosh Londhe	Oasis Infobyte	10/01/2023	15/02/2023
32	mohit mane	Surya electronic	02/01/2022	08/02/2023
33	Krishna Balaji Mare	Sunshine Powertronics Pvt Ltd manjariBudruk, Hadapsar. Pune	05/11/2022	01/02/2023
34	Mohd Aqib	Innovation Cool Engineering Works, Pune	12/12/2022	06/01/2023
35	More Deepraj Balasaheb	VCB Electronics Pvt. Ltd	01/01/2023	16/02/2023
36	More Dhiraj Shashikant	SMiT Solutions, Solapur	30/01/2023	27/02/2023
37	Ketaki Subhash Nanaware	CyberArt Solutions Pvt Ltd	20/01/2023	21/02/2023
38	Niraj Sunil Patil	Elite softwares	05/12/2022	03/02/2023
39	Vishweshwar Subhash Patil	Elite Software	05/12/2022	03/02/2023
40	Aditya Satyawan Pawar	Ekalipi Technologies Pvt Ltd	10/12/2022	10/02/2023
41	Rajwee Wable	Aviot-o-Virtue	01/12/2022	07/01/2023
42	Yash Ravangave	Sunshine PowertronicsPvt Ltd	05/12/2022	10/02/2023
43	Priyanka Shahaji Redekar	Twintech control system	05/12/2022	25/12/2022
44	Prathamesh Yogesh Shahapure	SMiT solution	24/01/2023	14/02/2023

45	Yashraj Yuvaraj Shelar	Oasis Infobyte	01/01/2023	31/01/2023
46	Shikalgar Atif Ahmadali	Aviot-o-Virtue	05/12/2022	27/01/2023
47	Aishwarya Shinde	S.R. Engineering, Pune	05/12/2022	03/01/2023
48	SakshiSurendra Shinde	Ekalipi Technologies Pvt Ltd	21/01/2023	10/02/2023
49	Samruddhi Rupesh Shivarkar	Automate Engineering	22/01/2023	22/02/2023
50	Siddhesh Vishwasrao Badgujar	LetsGrowMore	01/01/2023	01/02/2023
51	Shristi Singh	Elite softwares	05/12/2022	03/02/2023
52	Sonar Jotsna Pramod	Suven consultant and technology pvt.ltd	10/12/2022	31/01/2023
53	Sudhansh Dongare	Brainovision Solution pvtltd,Hyderabad	20/02/2023	23/03/2023
54	Omkar Vitthal Tanpure	Automate Engineering	22/01/2023	22/02/2023
55	AtharavVyawahare	Suven counsultant PVT LTD	10/12/2022	31/01/2023
56	Abhishek Walke	Brainovision Solutions India Pvt.Ltd	20/02/2023	23/03/2023
57	Shivam Rajendra Zinjurde	Suven Consultants & Technology Pvt. Ltd	10/12/2022	31/01/2023
58	Suraj Mete	IT - Software Compannny	20/02/2023	23/03/2023
59	Rutam Uday Khati	Dankel Tech	01/01/2022	31/01/2022
60	Anvekar Atul Rameshwar	Atomic Industries	12/12/2022	04/02/2023
61	Vedant Bandarkar	Automate Engineering	14/12/2022	14/01/2023
62	Anish Jadhav	Oasis Infobyte	01/02/2023	28/02/2023
63	Priti Tukaram Kadam	Avant Garde Solutions, Pvt. Ltd. Aundh, Pune	06/12/2022	06/02/2023
64	Omkar Mahajan	Automate Engineering	14/12/2022	14/01/2023
65	Pakale Om Sudhir	Oasis Infobyte	10/02/2023	10/03/2023
66	Sherkhane Pramila Gangaram	Elite Software	02/01/2023	10/02/2023
67	Tandale Nitin Annasaheb	Sunshine Powertronics	05/12/2022	01/02/2023
68	PawarAbhay Sanjay	Suven Consultants & Technology Pvt ltd	10/12/2022	31/01/2023

Table 2.2.5.4: Students undergone Industrial Internships 2021-22

Sr. No.	Name of students	Name of Industry / Company/ MNC / Factory / Plant internship done	Date of Joining	Date of Completion
1	Aman Sagar	Tata Sons Ltd	20/12/2021	20/03/2022
2	Khachane Himalay	Emomey Solution	21/12/2021	19/01/2022
3	Raut Rutuja Nitin	Kalpataru Plasts	25/01/2022	25/02/2022
4	Parkhe Shreyash	Sunshine Power Electronics	20/12/2021	31/01/2022
5	BakareYash Sanjay	Automic Engineers Pvt Ltd	10/01/2022	10/02/2022
6	Pravin Kailas Kunte	ENCON	06/02/2021	26/02/2022
7	DabhadeJanhavi	Bolts IOT	27/12/2021	05/02/2022
8	Jangam Abhishek Rajesh	Sunshine Power Electronics	20/12/2022	31/01/2022
9	HonkalseYash	Eptune Enterprises	11/01/2022	10/02/2022
10	Vishwas Prathamesh Devidas	Teknik Engineers	27/12/2021	24/01/2022
11	Ganesh Rajesh	Kalika Steel Private Ltd.,Jalna	27/12/2021	04/02/2022
12	Kumkar Aditya	Chaitanya	01/01/2022	28/02/2022
13	Deshmukh Shraddha Avinash	Aviator Automation India	27/12/2021	27/1/2022
14	Saumya	DRDO Pune	10/01/2022	31/05/2022
15	Ballal Ashwini	Diligence Tech	11/01/2022	01/03/2022
16	Sapna	Society For Space Education Research and Development	10/01/2022	21/02/2022
17	Rathod Chetana Kush	Dankel Tech	01/01/2022	31/01/2022
18	Sutar Divya Vishnu	Diligence Tech	10/01/2022	18/02/2022
19	Ashutosh Pardeshi	CSMDigital Technologies	22/12/2021	15/02/2022
20	Pratiksha Pradip Kavthale	CSM Digital Technologies /ENCON	06/02/2022	26/02/2022
21	Vora Diya Nischal	Shiksha	01/03/2022	31/03/2022
22	Yeole Amisha M	DiligenceTech	11/02/2022	01/03/2022
23	Patil Ram D	Shiksha	01/03/2022	31/03/2022
24	Kiran Zure	Microcon	21/12/2021	31/01/2022
25	Satyam Walekar	Microcon	21/12/2021	31/01/2022

26	Harsh Shah	CSM Digital Technologies	22/12/2021	15/02/2022
27	Gaikwad Vishakha V	Aviator Automation India	27/12/2021	20/01/2022
28	Mujawar Shaista J	Elon	27/12/2021	12/02/2022
29	Samruddhi N Jadhav	CSMDigital Technologies	22/12/2021	15/02/2022
30	Pandey Minal Suresh	Shiksha	01/01/2022	31/03/2022
31	Patil Shruti Sunil	Dankel Tech	01/01/2022	31/01/2022
32	Ayush Shetty	CSM Digital Technologies and Tata Technologies	04/01/222	19/04/2022
33	Chankeshwara Ishika Amit	CSM Digital Technologies	22/12/2021	13/02/2022
34	Akshay Jadhav	Microcon and Elcon	05/01/2022	20/02/2022
35	Arjun Singh	PicshortPrivateLimited	06/11/2021	06/01/2022

Table 2.2.5.5: Students undergone Industrial Internships 2020-21

Sr. No.	Name of the student	Name of Industry / Company/ MNC / Factory / Plant internship done	Date of Joining	Date of Completion
1	Pragana Chatala	Micron Power Electronic	24/10/2020	24/12/2020
2	Samiksha Mehta	Micron Power Electronic	24/10/2020	24/12/2020
3	Diksha Mahendra Ingle	Pie Infocomm Pvt Ltd	27/07/2020	27/08/2020
4	Abhishek Khedkar	Suven Consultants & Technology Pvt. Ltd.	01/06/2019	15/06/2019
5	Astha Sharma	Thuse Elecrtronics pvt ltd.	15/06/2020	17/07/2020
6	Akshay Gautam Jadhav	Curiosity Automation Pvt Ltd	15/05/2019	26/06/2019
7	Swapnali katke	Pie Infocomm Pvt Ltd	23/11/2020	24/12/2020
8	Swar Malu	M & S Training(Staetup)	06/07/2020	05/08/2020
9	Priyanka sawant	Pie Infocomm Pvt Ltd	01/08/2020	30/08/2020
10	Shreya Sidramappa Usturage	Pie Infocomm Pvt Ltd	05/08/2020	04/09/2020

11	Shivani Singh	VI Solution Banglore	15/06/2020	17/07/2020
12	Shivam Ramdas Deshmukh	Spark Foundation	19/09/2020	19/10/2020
13	Taushif Ahmed	EdGate Technologies Pvt Ltd	13/07/2020	22/07/2020
14	PrathmeshPardeshi	VI Solution Banglore	15/06/2020	17/07/2020
15	Kedar Pawar	Thuse Elecrtronics pvt ltd.	01/06/2019	15/06/2019
16	Chaitali Pramod Mahajan	EdGate Technologies Pvt Ltd	13/07/2020	22/07/2020
17	Aishwarya Kadu	Mohit Enterprises	02/05/2018	01/10/2018
18	Rutam khati	Microspectra	15/05/2019	25/06/2019
19	Shruti patil	Microspectra	15/05/2019	25/06/2019
20	Niraj Sabale	Techgyan Technologies	21/06/2021	04/08/2021
21	Vedant Kasat	Macbell Infotech pvt ltd Bhopal	01/08/2020	31/08/2020
22	Rushikesh Sunil Kale	IndEyes, Pune	01/11/2020	21/11/2020
23	Amol Dhole	IndEyes, Pune	01/11/2020	21/11/2020
24	Sumeet Supe	IndEyes, Pune	01/11/2020	21/11/2020
25	Sahil Sethi	IndEyes, Pune	01/11/2020	21/11/2020
26	Prashant Sanjay Dodke	IndEyes, Pune	01/11/2020	21/11/2020
27	Sanket Manohar Bansode	IndEyes, Pune	01/11/2020	21/11/2020
28	Monisha Patil	IndEyes, Pune	01/11/2020	21/11/2020
29	Vishal Patil	IndEyes, Pune	01/11/2020	21/11/2020
30	Shreyash Lohakare	IndEyes, Pune	01/11/2020	21/11/2020
31	Pranav R Kadam	IndEyes, Pune	01/11/2020	21/11/2020
32	Shrutika Dattatray Chavan	IndEyes, Pune	01/11/2020	21/11/2020
33	Akansha Shirbhate	IndEyes, Pune	01/11/2020	21/11/2020
34	Priyanka Rudrawar	IndEyes, Pune	01/11/2020	21/11/2020
35	Vedant Bhalke	IndEyes, Pune	01/11/2020	21/11/2020

36	Shivani Rajendra Dere	IndEyes, Pune	01/11/2020	21/11/2020
37	Aashutosh Jodh	IndEyes, Pune	01/11/2020	21/11/2020
38	Aashutosh	IndEyes, Pune	01/11/2020	21/11/2020
39	Akib Raut	IndEyes, Pune	01/11/2020	21/11/2020
40	Patil Piyush	IndEyes, Pune	01/11/2020	21/11/2020
41	Bhushan Dhangar	IndEyes, Pune	01/11/2020	21/11/2020

C: Impact analysis of industrial training

The following graduate attributes are inculcated in the students after the completion of internship / summer programs, industrial tours, industrial training leading to their employability skills.

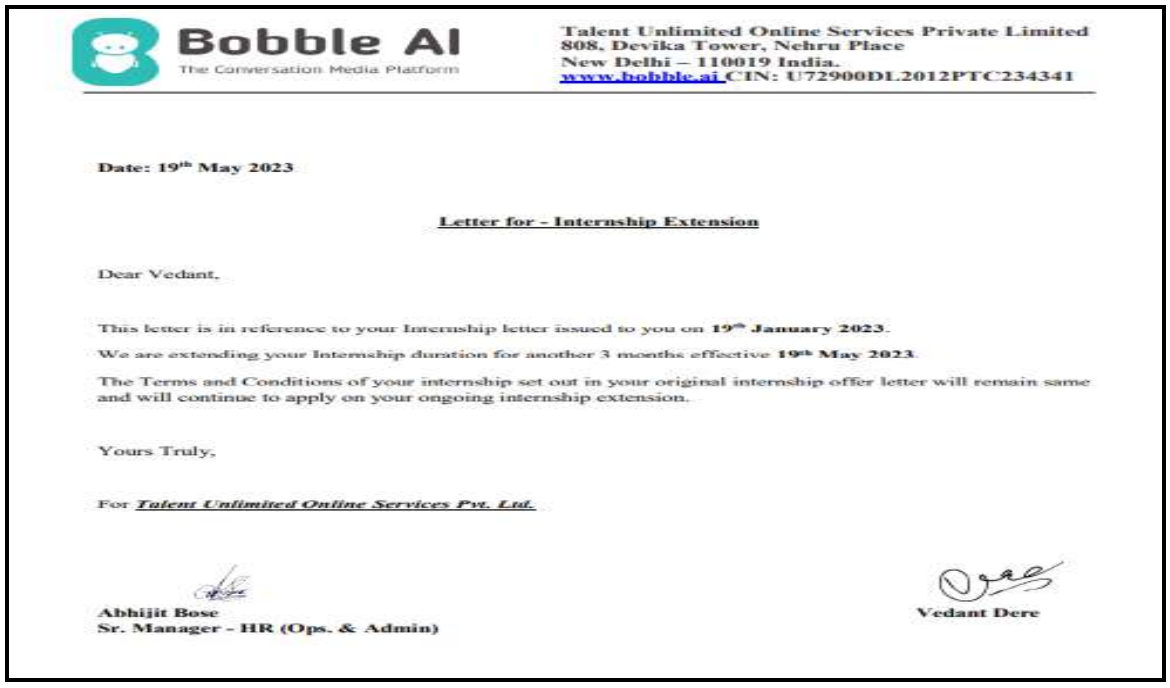
- Modern Tools Usage
- Engineer and Society
- Environment & Sustainability
- Ethics
- Individual & Team work
- Communication
- Lifelong Learning
- Project management & Finance

Table 2.2.5.6: Impact analysis of industrial training

Sr. No.	Name of the Industry	Internship	Project	Workshop/ Expert Lecture	Placement
1	AI2AW Systems Pvt. Ltd.	2 months	One year on custom Object distance detection and size analysis using computer vision	-	The students were offered placement offer. Currently working with the same company.
2	Sunshine Powertronics Pvt. Ltd. Pune	2 students during AY:2021-22, 4 students during AY:2022-23	Project Sponsorship in AY:2023-24	-	-
3	IOCARE, Pune	3 Students	2 Sponsored Projects	1 Workshop, 2 Seminars, Technical Sponsorship for AISSMSET for Digimania	-

				Event	
4	Wish Energy Pvt. Ltd. Pune.	2 students-E and TC, 3-Mechanical		Received 15000/- for consultancy aork	
5	Bobble AI, Delhi	1 Student	Project Sponsorship		Vedant Dere

Internship extension Letter of Vedant Dere



Bobble AI
The Conversation Media Platform

Talent Unlimited Online Services Private Limited
808, Devika Tower, Nehru Place
New Delhi – 110019 India.
www.bobble.ai CIN: U72900DL2012PTC234341

Date: 19th May 2023

Letter for - Internship Extension

Dear Vedant,

This letter is in reference to your Internship letter issued to you on **19th January 2023**.

We are extending your Internship duration for another 3 months effective **19th May 2023**.

The Terms and Conditions of your internship set out in your original internship offer letter will remain same and will continue to apply on your ongoing internship extension.

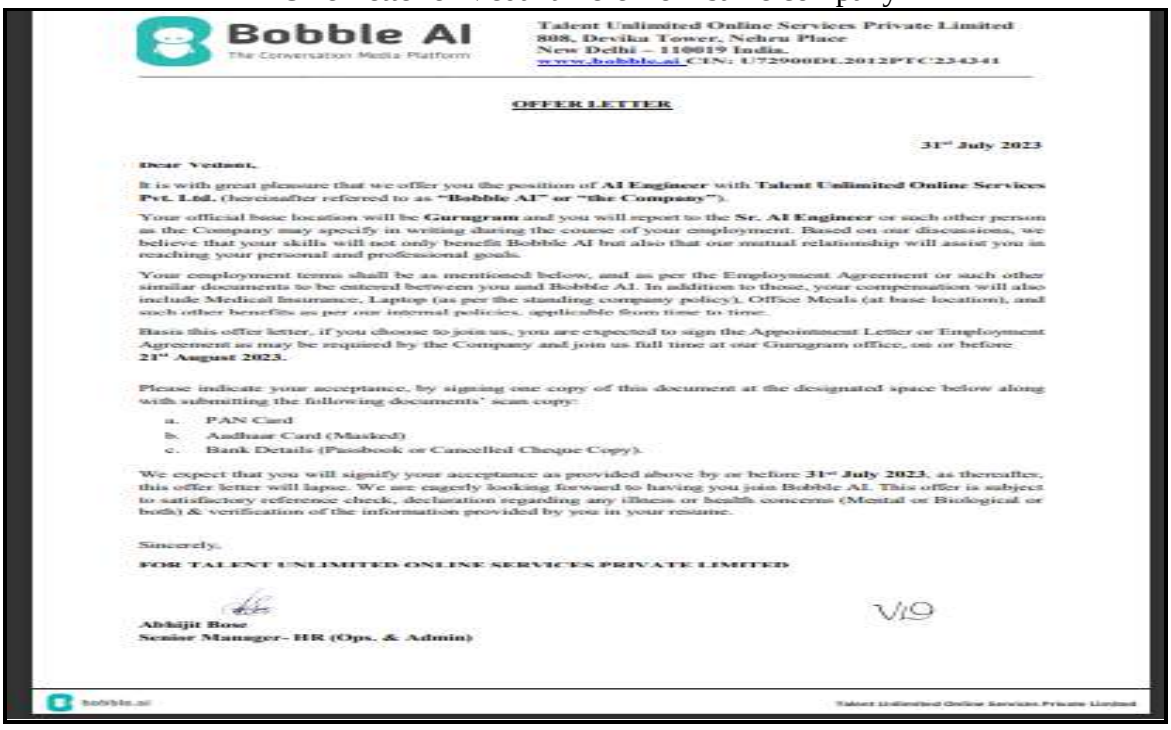
Yours Truly,

For ***Talent Unlimited Online Services Pvt. Ltd.***

Abhijit Bose
Sr. Manager - HR (Ops. & Admin)

Vedant Dere

Offer letter of Vedant Dere from same company



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808, Devika Tower, Nehru Place
New Delhi – 110019 India.
www.bobble.ai CIN: U72900DL2012PTC234341

OFFER LETTER

31st July 2023

Dear Vedant,

It is with great pleasure that we offer you the position of **AI Engineer** with **Talent Unlimited Online Services Pvt. Ltd.** (hereinafter referred to as **"Bobble AI" or "the Company"**).

Your official base location will be **Gurugram** and you will report to the **Sr. AI Engineer** or such other person as the Company may specify in writing during the course of your employment. Based on our discussions, we believe that your skills will not only benefit Bobble AI but also that our mutual relationship will assist you in reaching your personal and professional goals.

Your employment terms shall be as mentioned below, and as per the Employment Agreement or such other similar documents to be entered between you and Bobble AI. In addition to those, your compensation will also include Medical Insurance, Laptop (as per the standing company policy), Office Meals (at base location), and such other benefits as per our internal policies, applicable from time to time.

Basis this offer letter, if you choose to join us, you are expected to sign the Appointment Letter or Employment Agreement as may be required by the Company and join us full time at our Gurugram office, on or before **21st August 2023**.

Please indicate your acceptance, by signing one copy of this document at the designated space below along with submitting the following documents' scan copy:

a. PAN Card
b. Aadhaar Card (Masked)
c. Bank Details (Passbook or Cancelled Cheque Copy).

We expect that you will signify your acceptance as provided above by or before **31st July 2023**, as thereafter, this offer letter will lapse. We are eagerly looking forward to having you join Bobble AI. This offer is subject to satisfactory reference check, declaration regarding any illness or health concerns (Mental or Biological or both) & verification of the information provided by you in your resume.

Sincerely,

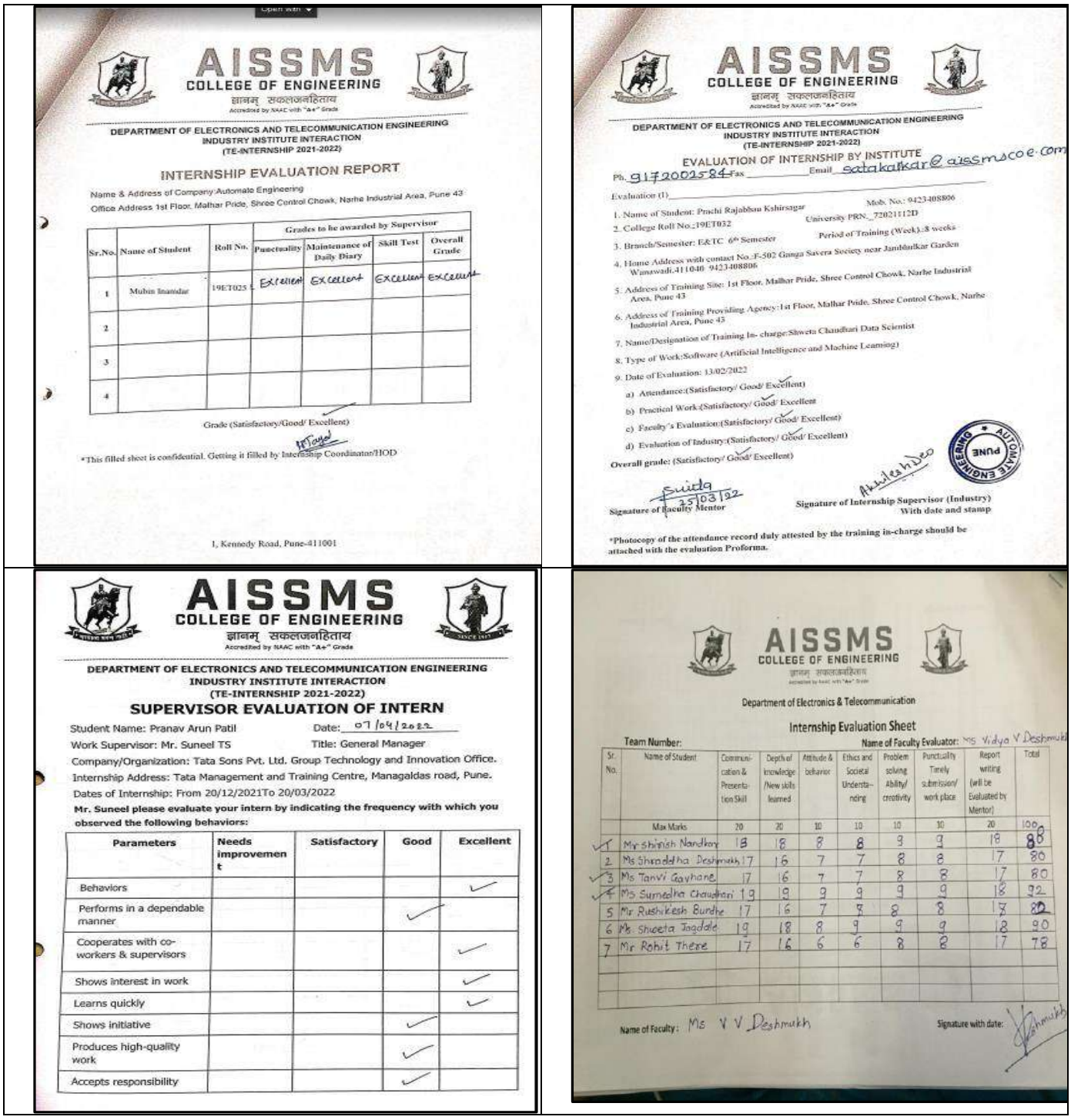
FOR TALENT UNLIMITED ONLINE SERVICES PRIVATE LIMITED

Abhijit Bose
Senior Manager- HR (Ops. & Admin)

VD

Figure 2.2.5.2: Impact of internship

Internship Assessment and Evaluation: -



AISSMS COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
INDUSTRY INSTITUTE INTERACTION
(TE-INTERNSHIP 2021-2022)

INTERNSHIP EVALUATION REPORT

Name & Address of Company:Automate Engineering
Office Address 1st Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43

Sr.No.	Name of Student	Roll No.	Grades to be awarded by Supervisor: Punctuality	Maintenance of Daily Diary	Skill Test	Overall Grade
1	Mubin Inamdar	19ET025	Excellent	Excellent	Excellent	Excellent
2						
3						
4						

Grade (Satisfactory/Good/ Excellent)

*This filled sheet is confidential. Getting it filled by Internship Coordinator/HOD

1, Kennedy Road, Pune-411001

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
INDUSTRY INSTITUTE INTERACTION
(TE-INTERNSHIP 2021-2022)

EVALUATION OF INTERNSHIP BY INSTITUTE

Ph. 9172001584 Fax _____ Email sstakalkar@aissmscoe.com

Evaluation (I)

1. Name of Student: Prachi Rajabhau Kshirsagar Mob. No.: 9423408806
2. College Roll No.:19ET032 University PRN: 72021112D
3. Branch/Semester: E&TC 6th Semester Period of Training (Week):8 weeks
4. Home Address with contact No.:F-502 Ganga Savera Society near Jambhulkar Garden Wanawadi.411040 9423408806
5. Address of Training Site: 1st Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43
6. Address of Training Providing Agency: 1st Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43
7. Name/Designation of Training In- charge:Shweta Chaudhari Data Scientist
8. Type of Work:Software (Artificial Intelligence and Machine Learning)
9. Date of Evaluation: 13/02/2022
   a) Attendance:(Satisfactory/ Good/ Excellent)
   b) Practical Work:(Satisfactory/ Good/ Excellent
   c) Faculty's Evaluation:(Satisfactory/ Good/ Excellent)
   d) Evaluation of Industry:(Satisfactory/ Good/ Excellent)

Overall grade: (Satisfactory/ Good/ Excellent)

Signature of Faculty Mentor

Signature of Internship Supervisor (Industry)
With date and stamp

*Photocopy of the attendance record duly attested by the training in-charge should be attached with the evaluation Proforma.

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
INDUSTRY INSTITUTE INTERACTION
(TE-INTERNSHIP 2021-2022)

SUPERVISOR EVALUATION OF INTERN

Student Name: Pranav Arun Patil Date: 07/04/2022
Work Supervisor: Mr. Suneel TS Title: General Manager
Company/Organization: Tata Sons Pvt. Ltd. Group Technology and Innovation Office.
Internship Address: Tata Management and Training Centre, Managaldas road, Pune.
Dates of Internship: From 20/12/2021To 20/03/2022

Mr. Suneel please evaluate your intern by indicating the frequency with which you observed the following behaviors:

Parameters	Needs improvement	Satisfactory	Good	Excellent
Behaviors				✓
Performs in a dependable manner			✓	
Cooperates with co-workers & supervisors				✓
Shows interest in work				✓
Learns quickly				✓
Shows initiative			✓	
Produces high-quality work			✓	
Accepts responsibility			✓	

AISSMS COLLEGE OF ENGINEERING

Department of Electronics & Telecommunication

Internship Evaluation Sheet

Team Number: Name of Faculty Evaluator: Ms Vidya V Deshmukh

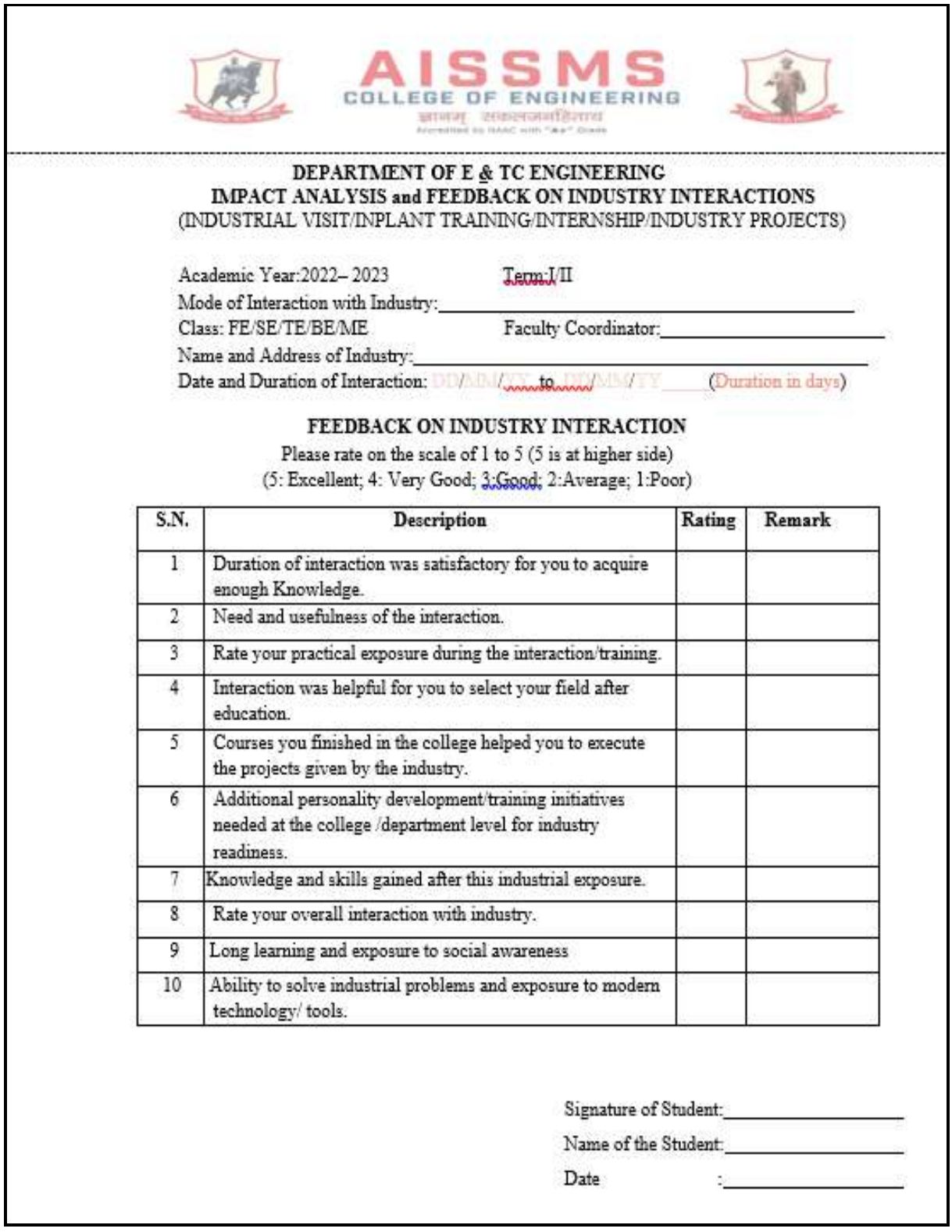
Sr. No.	Name of Student	Communication & Presentation Skill	Depth of knowledge /New skills learned	Attitude & behavior	Ethics and Societal Understanding	Problem solving Ability/ creativity	Punctuality Timely submission/ work place	Report writing (will be Evaluated by Mentor)	Total
	Max Marks	20	20	10	10	10	10	20	100
1	Mr Shirish Nandkar	18	18	8	8	9	9	18	88
2	Ms Shraddha Deshmukh	17	16	7	7	8	8	17	80
3	Ms Tanvi Gavhane	17	16	7	7	8	8	17	80
4	Ms Sumedha Chaudhari	19	19	9	9	9	9	18	92
5	Mr Rushikesh Burde	17	16	7	8	8	8	17	80
6	Ms Shweta Jagdale	19	18	8	9	9	9	18	90
7	Mr Rohit There	17	16	6	6	8	8	17	78

Name of Faculty: Ms V V Deshmukh Signature with date:

Figure 2.2.5.3: internship Evaluation Report

D. Student feedback on initiative

Department takes students feedback on various initiatives of industry institute interaction.



AISSMS COLLEGE OF ENGINEERING

DEPARTMENT OF E & TC ENGINEERING
IMPACT ANALYSIS and FEEDBACK ON INDUSTRY INTERACTIONS
(INDUSTRIAL VISIT/INPLANT TRAINING/INTERNSHIP/INDUSTRY PROJECTS)

Academic Year:2022– 2023 Term:I/II
Mode of Interaction with Industry:_____
Class: FE/SE/TE/BE/ME Faculty Coordinator:_____
Name and Address of Industry:_____
Date and Duration of Interaction: DD/MM/YY to DD/MM/YY (Duration in days)

FEEDBACK ON INDUSTRY INTERACTION
Please rate on the scale of 1 to 5 (5 is at higher side)
(5: Excellent; 4: Very Good; 3:Good; 2:Average; 1:Poor)

S.N.	Description	Rating	Remark
1	Duration of interaction was satisfactory for you to acquire enough Knowledge.		
2	Need and usefulness of the interaction.		
3	Rate your practical exposure during the interaction/training.		
4	Interaction was helpful for you to select your field after education.		
5	Courses you finished in the college helped you to execute the projects given by the industry.		
6	Additional personality development/training initiatives needed at the college /department level for industry readiness.		
7	Knowledge and skills gained after this industrial exposure.		
8	Rate your overall interaction with industry.		
9	Long learning and exposure to social awareness		
10	Ability to solve industrial problems and exposure to modern technology/ tools.		

Signature of Student:_____
Name of the Student:_____
Date :_____

Figure 2.2.5.4: Students Feedback on Initiatives

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Accredited by NAAC with "A+" Grade

DEPARTMENT OF E & TC ENGINEERING
IMPACT ANALYSIS and FEEDBACK ON INDUSTRY INTERACTIONS
(INDUSTRIAL VISIT/INPLANT TRAINING/INTERNSHIP/INDUSTRY PROJECTS)

Academic Year:2022– 2023 Term:I/II
Mode of Interaction with Industry: Hybrid
Class: FE/SE/TE/BE/ME Faculty Coordinator: Dr. R.R. Itkarkar
Name and Address of Industry: Ekalipi Institute, Bavdhan Pune
Date and Duration of Interaction: 05/12/22 to 10/02/23 (Duration in days)

FEEDBACK ON INDUSTRY INTERACTION
Please rate on the scale of 1 to 5 (5 is at higher side)
(5: Excellent; 4: Very Good; 3:Good; 2:Average; 1:Poor)

S.N.	Description	Rating	Remark
1	Duration of interaction was satisfactory for you to acquire enough Knowledge.	4	
2	Need and usefulness of the interaction.	5	
3	Rate your practical exposure during the interaction/training.	4	
4	Interaction was helpful for you to select your field after education.	4	
5	Courses you finished in the college helped you to execute the projects given by the industry.	3	
6	Additional personality development/training initiatives needed at the college /department level for industry readiness.	4	
7	Knowledge and skills gained after this industrial exposure.	4	
8	Rate your overall interaction with industry.	4	
9	Long learning and exposure to social awareness	3	
10	Ability to solve industrial problems and exposure to modern technology/ tools.	3	

Signature of Student: Shinde
Name of the Student: Sakshi Shinde
Date : 12/02/23

Figure 2.2.5.5: Sample Student's Feedback on Initiatives

Table 2.2.5.7: Feedback Analysis on Industry Interaction

Samples:25

Sr. No.	Description	Excellent (5)	Very Good (4)	Good (3)	Average (2)	Poor (1)
1	Duration of interaction was satisfactory for you to acquire enough Knowledge.	20	5			
2	Need and usefulness of the interaction.	18	5	2		
3	Rate your practical exposure during the interaction/training.	22	2	1		
4	Interaction was helpful for you to select your field after education.	19	3	2	1	
5	Courses you finished in the college helped you to execute the projects given by the industry.	23	1	1		
6	Additional personality development/training initiatives needed at the college /department level for industry readiness.	19	2	2	2	
7	Knowledge and skills gained after this industrial exposure.	22	1	1	1	
8	Rate your overall interaction with industry.	24	1			
9	Long learning and exposure to social awareness	22	1	1	1	
10	Ability to solve industrial problems and exposure to modern technology/ tools.	20	22	1	1	1

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ज्ञानम् सकलजनहिताय

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

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION III

Course Outcomes & Program Outcomes

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs)

3.1.1 Course Outcomes (COs) *(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked)*

SE: Sem 1 AY:20-21 Sub: Digital Circuits

On completion of the course, students will be able to -	
C203.1	Classify various Digital Logic Families with their characteristics.
C203.2	Compute Boolean expressions using reduction techniques of Digital Logic Circuits
C203.3	Implement Combinational Logic Circuits
C203.4	Execute Sequential Circuits
C203.5	Analyze FSM using Mealy and Moore Machines.
C203.6	Compare Semiconductor Memories.

SE: Sem 2 AY:20-21 Sub: Principles of communication Systems

On completion of the course, students will be able to -	
C214.1	Analyze signals in time and frequency domain
C214.2	Evaluate the performance of different Amplitude modulated systems
C214.3	Examine techniques of generation and detection for FM systems
C214.4	Exhibit sampling theorem for pulse modulation techniques
C214.5	Compare various digital representation techniques
C214.6	Illustrate various aspects in baseband digital transmission

TE: Sem 1 AY:21-22 Sub: Digital Communication

On completion of the course, students will be able to -	
C301.1	Explain various signals in a communication system using statistical theory.
C301.2	Categorize various digital modulation techniques used in digital communication system in presence of AWGN noise.
C301.3	Compare various higher order digital modulation techniques used in digital communication system.
C301.4	Describe the digital communication system with spread spectrum modulation.
C301.5	Estimate a communication system using information theoretic approach.
C301.6	Illustrate error control coding techniques to improve performance of a digital communication system.

TE: Sem 2 AY:21-22 Sub: Project Management

On completion of the course, students will be able to -	
C313.1	Apply fundamental knowledge of project management for effectively handling projects.
C313.2	Identify the project based on its feasibility study with its effective planning.
C313.3	Assimilate effectively the organizational structure of project to handle project management related issues.
C313.4	Demonstrate Project Plan using project scheduling techniques
C313.5	Recognize project risks and manage finances
C313.6	Prepare a business plan for Product development and Entrepreneurship.

BE: Sem 1 AY:22-23 Sub: VLSI Design and Technology

On completion of the course, students will be able to -	
C402.1	Develop effective HDL codes for digital design
C402.2	Demonstrate real time issues in digital design
C402.3	Model digital circuit with HDL, simulate, synthesis and proto type in PLDs
C402.4	Design CMOS circuits for specified applications
C402.5	Analyze various issues and constraints in design of an ASIC
C402.6	Apply Built In Self-Test (BIST) circuit for testability in design

BE: Sem 2 AY:22-23 Sub: Fiber Optic Communication

On completion of the course, students will be able to	
C410.1	Explain the working of components and measurement equipments in optical fiber networks.
C410.2	Estimate the important parameters associated with optical components used in fiber optic telecommunication systems.
C410.3	Compare the performance of major components in optical links.
C410.4	Evaluate the performance viability of optical links using the power and rise time budget analysis.
C410.5	Summarize different Optical Networks used in Fiber Optics Communication
C410.6	Describe the measurement equipments/Systems in optical fiber networks.

3.1.2 CO-PO matrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester)

SE: Sem 1 AY:20-21 Sub: Digital Circuits

CO	Program Outcomes											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
C203.1	3	3	2	1				1		1		
C203.2	3	3	3	3	2			1		1		
C203.3	3	3	3	3	2			1		1		
C203.4	3	3	3	3	2			1		1		
C203.5	3	3	3	2				1		1		
C203.6	3	3	2	1				1		1		
Average	**3**	**3**	**2.66**	**2.16**	**2**			**1**		**1**		

SE: Sem 2 AY:20-21 Sub: Principles of communication Systems

CO	Program Outcomes											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
C214.1	3	3	1	1	1			1		1		
C214.2	3	3	1	1	1			1		1		
C214.3	3	3	1	1	1			1		1		
C214.4	2	3	1	1	1			1		1		

C214.5	2	3	1	1	1			1		1		
C214.6	2	3	1	1	1			1		1		
Average	**2.5**	**3**	**1**	**1**	**1**			**1**		**1**		

TE: Sem 1 AY:21-22 Sub: Digital Communication

CO	**Program Outcomes**											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
C301.1	3	3	3	2	2	1		1		1		
C301.2	3	3	3	2	2	1		1		1		
C301.3	3	3	3	2		1		1		1		
C301.4	3	3	3	2	2	1		1		1		
C301.5	3	3	3	2	2	1		1		1		
C301.6	3	3	3	2	2	1		1		1		
Average	**3**	**3**	**3**	**2**	**2**	**1**		**1**		**1**		

TE: Sem 2 AY:21-22 Sub: Project Management

CO	**Program Outcomes**											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
C313.1	3	1				2	1	2	3	1	1	
C313.2	3	2	1	1		2		2	3	3	2	2
C313.3	2	1						2	3	3	1	
C313.4	3	2	1	1	2	2	1	2	3	3	3	1
C313.5	3	2	1	1	2			2	3	3	2	2
C313.6	3	3	3	3		2	2	3	3	2	3	2
Average	**2.83**	**1.83**	**1**	**1.5**	**2**	**2**	**1.33**	**2.17**	**3**	**2.5**	**2**	**1.75**

BE: Sem 1 AY:22-23 Sub: VLSI Design and Technology

CO	**Program Outcomes**											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
C402.1	3	3	2	3	3			1		1		
C402.2	3	3	2	3	3			1		1		
C402.3	3	2	2	2	3			1		1		

C402.4	2	3	2	2	2			1		1		
C402.5	2	3	1	1	2			1		1		
C402.6	2	3	2	2				1		1		
Average	**2.50**	**2.83**	**1.83**	**2.16**	**2.60**			**1**		**1**		

BE: Sem 2 AY:22-23 Sub: Fiber Optic Communication

CO	**Program Outcomes**											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
C410.1	3	3	3	3				1		1		
C410.2	3	3	3	3				1		1		
C410.3	3	3	3	3				1		1		
C410.4	3	3	3	3	2			1		1		
C410.5	3							1		1		
C410.6	3	3	3					1		1		
Average	**3**	**3**	**3**	**3**	**2**			**1**		**1**		

CO-PSO Matrices of courses selected in 3.1.1

SE: Sem 1 AY:20-21 Sub: Digital Circuits

(Term – I)

CO	**PSO1**	**PSO2**	**PSO3**
C203.1	2	2	1
C203.2	3	3	1
C203.3	3	3	1
C203.4	3	3	1
C203.5	3	3	1
C203.6	2	2	1
Average	**2.66**	**2.66**	**1**

SE: Sem 2 AY:20-21 Sub: Principles of communication Systems

(Term – II)

CO	**PO1**	**PO2**	**PO3**
C214.1	2	1	

C214.2	2	1	
C214.3	2	1	
C214.4	2	1	
C214.5	2	1	
C214.6	2	1	
Average	**2**	**1**	

TE: Sem 1 AY:21-22 Sub: Digital Communication

(Term – I)

CO	PSO1	PSO2	PSO3
C301.1	3		
C301.2	3		
C301.3	3		
C301.4	3		
C301.5	3		
C301.6	3		
Average	**3**		

TE: Sem 2 AY:21-22 Sub: Project Management

(Term – II)

CO	PSO1	PSO2	PSO3
C313.1	2		3
C313.2	2		3
C313.3			3
C313.4	2	2	3
C313.5	2	2	3
C313.6	2	2	3
Average	**2**	**2**	**3**

BE: Sem 1 AY:22-23 Sub: VLSI Design and Technology

(Term – I)

CO	PO1	PO2	PO3
C402.1	3	3	

C402.2	3	3	
C402.3	3	3	
C402.4	3	3	
C402.5	2	2	
C402.6	2	2	
Average	**2.66**	**2.66**	

BE: Sem 2 AY:22-23 Sub: Fiber Optic Communication

(Term – II)

CO	PSO1	PSO2	PSO3
C410.1	3		
C410.2	3		
C410.3	3		
C410.4	3		
C410.5	3		
C410.6	3		
Average	**3**		

3.1.3 - A Program Level Course-PO matrix of all courses INCLUDING first year courses

(Cycle 1)

Sr. No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		AY:17-18 FE												
1	101005	Basic Civil and Environmental Engineering	2	2	1	1	1	1	1					
2	101011	Engineering Mechanics	2	2	1									
3	102006	Engineering Graphics I	3	2								1		
4	102013	Basic Mechanical Engineering	2	2										
5	102014	Engineering Graphics II	2	1			1							
6	103004	Basic Electrical Engineering	3	1	1									
7	104012	Basic Electronics Engineering	2	1	1		1							
8	107001	Engineering Mathematics I	3	2	1									
9	107002	Engineering Physics	2	1.33	1		1							
10	107008	Engineering Mathematics II	3	2	1									
11	107009	Engineering Chemistry	3	1	1									
12	110003	Fundamentals of Programming Languages I	3	2	1		2							
13	110010	Fundamentals of Programming Languages II	3	2	1		2							

14	111007	Workshop Practice	2	1	1			1						
		AY:18-19 SE												
15	204181	Signals & Systems	3	3	1	1				1		1		
16	204182	Electronic Devices & Circuits	2.17	2	2	1.83	1.8							
17	204183	Electrical Circuits and Machines	3	3	1	1				1		1		
18	204184	Data Structures and Algorithms	1.83	2.33	1.5	1.5	3			1		1		
19	204185	Digital Electronics	2.33	2	1.5	1.5	2			1		1		
20	204186	Electronic Measuring Instruments & Tools	1.17	1.67	1	1	1	1	1	2	3	2.67		1
21	204192	Audit Course 1 (Japanese Language Module 1)										2.5		2
22	207005	Engineering Mathematics III	3	2	1									
23	204187	Integrated Circuits	3	3	1	1				1		1		
24	204188	Control Systems	1	2	1	1				1		1		
25	204189	Analog Communication	2.67	1.5		1	2	1		1	1			
26	204190	Object Oriented Programming	1.83	2.33	1.5	1.5	3			1		1		
27	204191	Employability Skill Development	1.25	1.5	1	1	1	1	1	2	3	2.5		1
28	204193	Japanese Language module-II										2.5		2
		AY:19-20 TE												
29	304181	Digital Communication	3	3	3	1		1		1		1		
30	304182	Digital Signal Processing	3	3	2.5	2.17	1			1		1		
31	304183	Electromagnetics	3	2	1	1	1					1		
32	304184	Microcontrollers	2	3	2.67	2	2			1		1		
33	304185	Mechatronics	1.67	1.67	2	1.5	2	1	1					
34	304193	Electronics System Design	3	3	2	1	2			1	1	1		
35		Audit Course Cyber and Information Security	2	2				2		3		1		1
36	304186	Power Electronics	2.33	2.83	1.33	2.17	2			1		1		
37	304187	Information Theory, Coding and Communication Networks	3	3	2.17	1.67	2			1		1		
38	304188	Business Management	1	2	2		2	2	1.75	2	1.8	1.2	2	1
39	304189	Advanced Processors	2	3	2.5	1	2			1		1		
40	304190	System Programming and Operating Systems	1.83	2.33	1.5	1.5	3			1		1		
41	304196	Employability Skills and Mini Project	3	3	3	3	3	2	2	2	3	3	3	2
42		Embedded System Using MSP430	2	2				2				2		2
		AY:2020-21 BE												
43	404181	VLSI Design& Technology	1.83	2.17	2.83	2.33	3	1	1			2		
44	404182	Computer Networks & Security	3	3	1.67	1.67	1.67			1		1		
45	404183	Radiation & Microwave Techniques	3	3		1				1		1		
46	404184	Internet of Things	2.33	2.6	2.5	2.4	2.5	1		1		1.17		1
47	404185	Artificial Intelligence	2	2	2	3	3			1				2
48	404188	Project Stage I	2.5	3	2.5	3	2.5	2.5	3	2.5	2.5	2.5	3	3
49		Audit course-Human Behaviour						2		2	2	2		2
50	404189	Mobile Communication	3	1.5	1	2	1					1		
51	404190	Broadband Communication Systems	3	3	3	1		1		1		1		
52	404191	Audio Video Engineering	1	1	1	1	2		2					1

53	404191	Machine Learning	2.67	2.6	2	2.4	2.5	1		1	1	1.17	1	1
54	404192	Renewable Energy Systems	2.17	1.83	1	2		2	2.17					
55	404195	Project Stage II	3	3	3	3	2.67	2	2	2.5	3	3	2.5	3
56		Audit Course-Environment Issues & Discusser Management						2	2	2				2

3.1.3.2-A Program Level Course-PSO matrix of all courses INCLUDING first year courses (Cycle 1)

Sr. No	Course Code	Course Name	PSO1	PSO2	PSO3
		AY:17-18 FE			
1	101005	Basic Civil and Environmental Engineering			
2	101011	Engineering Mechanics			
3	102006	Engineering Graphics I			
4	102013	Basic Mechanical Engineering			
5	102014	Engineering Graphics II			
6	103004	Basic Electrical Engineering	1.5	1	
7	104012	Basic Electronics Engineering	2	1.83	1
8	107001	Engineering Mathematics I	1		
9	107002	Engineering Physics	1	1	
10	107008	Engineering Mathematics II	1		
11	107009	Engineering Chemistry			
12	110003	Fundamentals of Programming Languages I			
13	110010	Fundamentals of Programming Languages II			
14	111007	Workshop Practice			
		AY:18-19 SE			
15	204181	Signals & Systems	2	1	
16	204182	Electronic Devices & Circuits	1.83	1.75	
17	204183	Electrical Circuits and Machines	2	1	
18	204184	Data Structures and Algorithms	2	1	1
19	204185	Digital Electronics	1.5	1	
20	204186	Electronic Measuring Instruments & Tools	1	1	3
21	204192	Audit Course 1 (Japanese Language Module 1)			
22	207005	Engineering Mathematics III	1		
23	204187	Integrated Circuits	3	2	
24	204188	Control Systems	1	1	
25	204189	Analog Communication	1		1.2
26	204190	Object Oriented Programming	2	1	
27	204191	Employability Skill Development	1	1	3
28	204193	Japanese Language module-II			
		AY:19-20 TE			
29	304181	Digital Communication	2		
30	304182	Digital Signal Processing	1	1	
31	304183	Electromagnetics	3	1	
32	304184	Microcontrollers	1	2.67	1

33	304185	Mechatronics	1.33	2.5	2.33
34	304193	Electronics System Design	3	3	2
35		Audit Course Cyber and Information Security		1	
36	304186	Power Electronics	2.33	2.33	1
37	304187	Information Theory, Coding and Communication Networks	2.33		
38	304188	Business Management			1
39	304189	Advanced Processors	1	2.5	
40	304190	System Programming and Operating Systems	2	1	
41	304196	Employability Skills and Mini Project	3	3	3
42		Embedded System Using MSP430	1	2	
		AY:2020-21 BE			
43	404181	VLSI Design& Technology	2.67	1	1
44	404182	Computer Networks & Security	1	1	
45	404183	Radiation & Microwave Techniques	2	1	
46	404184	Internet of Things	2	2.5	1
47	404185	Artificial Intelligence	3	1.67	
48	404188	Project Stage I	3	2.67	2.17
49		Audit course-Human Behaviour			2
50	404189	Mobile Communication		1	1
51	404190	Broadband Communication Systems	3		
52	404191	Audio Video Engineering	1.67	1	
53	404191	Machine Learning	2	2.5	1
54	404192	Renewable Energy Systems	1		2
55	404195	Project Stage II	3	3	3
56		Audit Course-Environment Issues & Discusser Management			2

3.1.3.3-A Program Level Course-PO matrix of all courses INCLUDING first year courses (Cycle 2)

Sr. No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		AY:18-19 FE												
1	101005	Basic Civil and Environmental Engineering	2	2	1	1	1	1	1					
2	101011	Engineering Mechanics	2	2	1									
3	102006	Engineering Graphics I	3	2								1		
4	102013	Basic Mechanical Engineering	2	2										
5	102014	Engineering Graphics II	2	1			1							
6	103004	Basic Electrical Engineering	3	1	1									
7	104012	Basic Electronics Engineering	2	1	1		1							
8	107001	Engineering Mathematics I	3	2	1									
9	107002	Engineering Physics	2	1.33	1		1							
10	107008	Engineering Mathematics II	3	2	1									
11	107009	Engineering Chemistry	3	1	1									
12	110003	Fundamentals of Programming Languages I	3	2	1		2							

13	110010	Fundamentals of Programming Languages II	3	2	1		2							
14	111007	Workshop Practice	2	1	1			1						
		AY:19-20 SE												
15	204181	Signals & Systems	3	3	1	1	1		2	1		1		
16	204182	Electronic Devices & Circuits	2.17	1.83	2	1.7	1.8							
17	204183	Electrical Circuits and Machines	3	3	1	1				1		1		
18	204184	Data Structures and Algorithms	1.83	2.33	1.5	1.5	3			1		1		
19	204185	Digital Electronics	3	3	2.3	2.3	2.3			1		1		
20	204186	Electronic Measuring Instruments & Tools	1.17	1.67	1	1	1	1	1	2	3	2.67		1
21	204192	Audit Course 1 (Japanese Language Module 1)										2.5		2
22	207005	Engineering Mathematics III	3	2	1		1							
23	204187	Integrated Circuits	3	3	1	1				1		1		
24	204188	Control Systems	2	1	1		1							
25	204189	Analog Communication	2.33	1.17		1	2	1			1			
26	204190	Object Oriented Programming	1.83	2.33	1.5	1.5	3			1		1		
27	204191	Employability Skill Development	1.25	1.5	1	1	1	1	1	2	3	2.5		1
28	204193	Audit Course 2 (Japanese Language Module 2)										2.5		2
		AY:20-21 TE												
29	304181	Digital Communication	3	3	3	1		1		1		1		
30	304182	Digital Signal Processing	3	3	2.5	2.2	1			1		1		
31	304183	Electromagnetics	3	2	1	1	1					1		
32	304184	Microcontrollers	2	3	2.7		2			1		1		
33	304185	Mechatronics	2	1	1		1		1					
34	304193	Electronics System Design	3	3	2	1	2			1	1	1		
35		Audit Course Cyber and Information Security	2	2				2		3		1		1
36	304186	Power Electronics	2.17	2.67		2.17	1			1		1		
37	304187	Information Theory, Coding and Communication Networks	3	3	2.2	1.7	2			1		1		
38	304188	Business Management	1	2	2		2	2	1.8	2	1.8	1.2	2	1
39	304189	Advanced Processors	2	3	2.5		2			1		1		
40	304190	System Programming and Operating Systems	1.83	2.33	1.5	1.5	3			1		1		
41	304196	Employability Skills and Mini Project	3	3	3	3	3	3	2	2	3	3	3	2
42		Audit Course Embedded System using MSP430	2	2				2				2		2
		AY:2021-22 BE												
43	404181	VLSI Design& Technology	1.83	2.17	2.8	2.3	3	1	1			2		
44	404182	Computer Networks & Security	3	3	1.7	1.7	1.7			1		1		
45	404183	Radiation & Microwave Techniques	3	3	1	1				1		1		
46	404184	Internet of Things	2.33	2.6	2.5	2.4	2.5	1		1		1.17		1
47	404185	Artificial Intelligence	2	2	2	3	3			1				2
48	404185	Electronics Product Design	1	1	1.3	1	1	1	1	1	1.33	1	1.25	1.67
49	404184	Embedded system and RTOS	2	3	2		2			1		1		
50	404188	Project Stage I	2.5	3	2.5	3	2.5	2.5	3	2.5	2.5	2.5	3	3
51		Audit course Human Behaviour						2		2	2	2		2
52	404189	Mobile Communication	3	1.5	1	2	1					1		

53	404190	Broadband Communication Systems	3	3	3	1		1		1		1		
54	404191	Machine Learning	1.67	2.17	2.6	3	2.6			1	1	1		2
55	404192	Renewable Energy Systems	2.17	1.83	1	2		2	2.2					
56	404195	Project Stage II	3	3	3	3	2.7	2	2	2.5	3	3	2.5	3
57		Audit Course Environmental issue and Disaster Management						2	2	2				2

3.1.3.4-A Program Level Course-PO matrix of all courses INCLUDING first year courses (Cycle 2)

Sr. No.	Course Code	Course Name	PSO1	PSO2	PSO3
		AY:18-19 FE			
1	101005	Basic Civil and Environmental Engineering			
2	101011	Engineering Mechanics			
3	102006	Engineering Graphics I			
4	102013	Basic Mechanical Engineering			
5	102014	Engineering Graphics II			
6	103004	Basic Electrical Engineering	1.5	1	
7	104012	Basic Electronics Engineering	2	1.83	1
8	107001	Engineering Mathematics I	1		
9	107002	Engineering Physics	1	1	
10	107008	Engineering Mathematics II	1		
11	107009	Engineering Chemistry			
12	110003	Fundamentals of Programming Languages I			
13	110010	Fundamentals of Programming Languages II			
14	111007	Workshop Practice			
		AY:19-20 SE			
15	204181	Signals & Systems	1	1	
16	204182	Electronic Devices & Circuits	1.83	1.6	
17	204183	Electrical Circuits and Machines	2	1	
18	204184	Data Structures and Algorithms	2	1	1
19	204185	Digital Electronics	2.67	2.67	1
20	204186	Electronic Measuring Instruments & Tools	1	1	3
21	204192	Audit Course 1 (Japanese Language Module 1)			
22	207005	Engineering Mathematics III	1		
23	204187	Integrated Circuits	3	2	
24	204188	Control Systems	1.67	2	2.75
25	204189	Analog Communication	1		1.2
26	204190	Object Oriented Programming	2	1	
27	204191	Employability Skill Development	1	1	3
28	204193	Audit Course 2 (Japanese Language Module 2)			
		AY:20-21 TE			
29	304181	Digital Communication	3		
30	304182	Digital Signal Processing	1	1	
31	304183	Electromagnetics	3	1	

32	304184	Microcontrollers	1	2.67	
33	304185	Mechatronics	1.33	2.5	2.33
34	304193	Electronics System Design	3	3	2
35		Audit Course Cyber and Information Security		1	
36	304186	Power Electronics	1.67		
37	304187	Information Theory, Coding and Communication Networks	2.33		1
38	304188	Business Management			1
39	304189	Advanced Processors	1	2.5	
40	304190	System Programming and Operating Systems	2	1	
41	304196	Employability Skills and Mini Project	3	3	3
42		Audit Course Embedded System using MSP430	1	2	
		AY:2021-22 BE			
43	404181	VLSI Design& Technology	2.67	1	1
44	404182	Computer Networks & Security	1	1	
45	404183	Radiation & Microwave Techniques	2	1	
46	404184	Internet of Things	2	2.5	1
47	404185	Artificial Intelligence	3	1.67	
48	404185	Electronics Product Design	1	1	
49	404184	Embedded system and RTOS	1	2	
50	404188	Project Stage I	3	2.67	2.17
51		Audit course Human Behaviour			2
52	404189	Mobile Communication		1	1
53	404190	Broadband Communication Systems	3		
54	404191	Machine Learning		1.67	
55	404192	Renewable Energy Systems	1		2
56	404195	Project Stage II	3	3	3
57		Audit Course Environmental issue and Disaster Management			2

3.1.3.5-A Program Level Course-PO matrix of all courses INCLUDING first year courses (Cycle 3)

Sr. No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		AY:19-20 FE												
1	107001	Enggineering Mathematics - I	3.00	2.00	1.00		1.00							
2	107002	Engineering Physics	2.00	1.00			1.00		1.00			1.00		
3	102003	SME	2.00	1.00					1.00			1.00		
4	103004	Basic Electrical Engineeirng	1.50	1.50	1.00		1.00							
5	110005	PPS	1.25	2.00	1.60		1.00			1.00	1.00	1.00		1.00
6	111006	Workshop Practices	1.00	1.00	1.00	1.00		1.00						
7	107008	Engineering Mathamatics II	3.00	2.00	1.00		1.00							
8	107009	Engineering Chemistry	2.33	2.00	1.00				1.00		1.00	1.00		
9	104010	Basic Electronics Engineeirng	2.00	1.00	1.00		1.00							
10	101011	Engineering Mechanics	2.00	2.00			1.00					1.00		
11	102012	Engineering Graphics	2.00	1.00	1.00		1.00					1.00		

12	110013	PBL	2.33	1.33	1.00		2.50	1.00	1.00		2.00	1.00	1.00	
		AY:20-21 SE												
13	207005	Engineering Mathematics III	3	2	1		1							
14	204181	Electronic Circuits	3	3	2	1	2			1	1	1		
15	204182	Digital Circuit	3	3	2.67	2.17	2			1		1		
16	204183	Electrical Circuits	3	3	1	1	1.5			1		1		
17	204184	Data structures	1.83	2.33	1.5	1.5	3			1		1		
18	204189	Electronic Skill Development	3	3	2.5	1	2		2	1		1		
19	204190	Audit Course- German Language 1										2.5		2
20	204191	Signals & Systems	2.5	3	1	1	1			1		1		
21	204192	Control Systems	1.83	3	2.83	2.83	2.83							
22	204193	Principles of Communication Systems	2.5	3	1	1	1			1		1		
23	204194	Object Oriented Programming	1.83	2.33	1.5	1.5	3			1		1		
24	204198	Data Analytics Lab	2.17	2.5	2	3	3			1		1		1
25	204199	Employability Skill Development	1.2	1.4	1	1	1	1	1	2	3	2.6		1.2
26	204200	Project Based Learning	3	3	2	2	3	1	2	2	2.3	2.3	1	1
27	204201	Audit Course-Enhancing Softskills						1		1	1	2		2
		AY:21-22 TE												
28	304181	Digital Communication	3	3	3	2	2	1		1		1		
29	304182	Electromagnetic Field Theory	3	2	2	1	1			1		1		
30	304183	Database Management	2	2.5	2.67	2.33	3			2		2.17	1.75	3
31	304184	Microcontroller	2	3	2.5		2			1		1		
32	304185	Fundamentals of JAVA Programming	3	3	2	1	2			1	1	1		
33	304185	Computer Networks	2.83	2.67	1.83	2.33	2	2		1				
34	304190	Skill Development	2.6	1.6	3		1			1	1	1		1
35	304191A	Audit Course- Entrepreneurship and Intellectual Property (IP) Strategy						2		2	2	2		2
36	304192	Cellular Networks	2	1.67	1.67		1			1		1		
37	304193	Project Management	2.83	1.83	1.5	1.5	2	2	1.33	2.17	3	2.5	2	1.75
38	304194	Power Devices & Circuits	2.3	2.83	1.3	2.1	2			1		1		
39	304195	Advanced JAVA Programming	2	3	3	1	3	1			3	1		1
40	304195	Network Security	2.67	2.67	2	1.33	2	2.5		1				
41	304199	Internship	2	2	2	1	2	2	2	2.75	2	2	2	2.2
42	304200	Mini Project	3	3	3	3	3	3	2	2	3	3	3	2
43	304191B	Audit Course-Energy Resources, Economics and Environment						2	2	1		1		2
		AY:2022-23 BE												
44	404181	Radiation & Microwave Theory	3	3	3	1	1	1		1		1		
45	404182	VLSI Design and Technology	2.5	2.83	1.83	2.16	2.6			1		1		
46	404183	Cloud Computing	3	3	3	3	3			1		1		
47	404184	Modernized IoT	3	3	3	3	2			1		1		2
48	404184	Java Script	1.83	2.33	1.5	1.5	3			1		1		
49	404185	Deep Learning	2.6	2.67	2.5	3	3	1		1		1		1
50	404185	Electronic Product Development	1.5	1.83	2.83	2.5	2.5	1	1			1.5	1	2
51	404188	Project Stage - I	2.5	3	2	3	3	2.5	3	2.5	2.67	3	2.33	3
52	404189	Audit Course-Human Resource Development						2		1	2	2		2

53	404190	Fiber Optic Communication	3	3	3	3	2			1		1		
54	404191	Mobile Computing	2	1	2	1	1							1
55	404192	Digital Marketing	1	1.5	1.67	1.6	2.67	1		1	1	2		1
56	404193	Innovation & Entrepreneurship	1.2	1	1.33	2	1			3	1	2	1.5	1.8
57	404194	Digital Business Management					3	3		3	3	3	3	3
58	404197	Project Stage - II	2	2.5	2.5	2	2.33	2	2	2.5	3	3	2.5	2

3.1.3.6-A Program Level Course-PSO matrix of all courses INCLUDING first year courses (Cycle 3)

Sr. No.	Course Code	Course Name	PSO1	PSO2	PSO3
		AY:19-20 FE			
1	107001	Engineering Mathematics - I	1.00		
2	107002	Engineering Physics	1.00	1.00	
3	102003	SME			
4	103004	Basic Electrical Engineering	1.50	1.00	
5	110005	PPS	1.67	1.33	
6	111006	Workshop Practices			
7	107008	Engineering Mathematics II	1.00		
8	107009	Engineering Chemistry			
9	104010	Basic Electronics Engineering	2.00	1.83	1.00
10	101011	Engineering Mechanics			
11	102012	Engineering Graphics			
12	110013	PBL	1.67	1.33	1.50
		AY:20-21 SE			
13	207005	Engineering Mathematics III	1		
14	204181	Electronic Circuits	3	3	2
15	204182	Digital Circuit	2.67	2.67	1
16	204183	Electrical Circuits	3	1	
17	204184	Data structures	2	1	1
18	204189	Electronic Skill Development	3	1.5	
19	204190	Audit Course- German Language 1			
20	204191	Signals & Systems	2	1	
21	204192	Control Systems	1.8	1.83	
22	204193	Principles of Communication Systems	2	1	
23	204194	Object Oriented Programming	2	1	
24	204198	Data Analytics Lab		2.17	
25	204199	Employability Skill Development	1	1	3
26	204200	Project Based Learning	1	1	1.3
27	204201	Audit Course-Enhancing Softskills			2
		AY:21-22 TE			
28	304181	Digital Communication	3		
29	304182	Electromagnetic Field Theory	3		
30	304183	Database Management	1	1	1
31	304184	Microcontroller	1	2.5	

32	304185	Fundamentals of JAVA Programming	3	3	2
33	304185	Computer Networks	2	1	
34	304190	Skill Development	3	2	1
35	304191A	Audit Course- Entrepreneurship and Intellectual Property (IP) Strategy			2
36	304192	Cellular Networks		2	
37	304193	Project Management	2	2	3
38	304194	Power Devices & Circuits	2.3	2.3	1
39	304195	Advanced JAVA Programming		1	1
40	304195	Network Security	1.75	1.5	
41	304199	Internship	2	2	2
42	304200	Mini Project	3	3	3
43	304191B	Audit Course-Energy Resources, Economics and Environment			1
		AY:2022-23 BE			
44	404181	Radiation & Microwave Theory	3	2	
45	404182	VLSI Design and Technology	2.66	2.66	
46	404183	Cloud Computing	1	1	
47	404184	Modernized IoT	3	3	1
48	404184	Java Script	2	1	1
49	404185	Deep Learning		1.67	
50	404185	Electronic Product Development	2.83	1.5	1
51	404188	Project Stage - I	3	2.5	2.17
52	404189	Audit Course-Human Resource Development			1
53	404190	Fiber Optic Communication	3		
54	404191	Mobile Computing		1	
55	404192	Digital Marketing		1.5	1
56	404193	Innovation & Entrepreneurship		1	1
57	404194	Digital Business Management	1		
58	404197	Project Stage - II	3	3	3

3.2 Attainment of Course Outcomes

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based

(Examples of data collection processes may include, but are not limited to, specific exam/ tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams etc.)

Process Details: Assessment of Course Outcome

Assessing Course Outcomes (COs) is an important part of evaluating the effectiveness of a course and determining whether it has achieved its intended goals. This process is carried out using following steps:

1. Define the Course Outcome statements: The first step is to clearly define the COstatements of the course using Bloom's Taxonomy. Domains of COs such as cognitive, psychomotor or affective are identified while framing the COstatements. This includes identifying the specific knowledge, skills, and abilities that students are expected to gain by the end of the course. For each course 4-6 measurable CO statements are defined.
2. Identify and Implement**:** Once the CO statements have been defined, the next step is to identify and implement assessment tools that measure the extent to which outcomes are achieved.
3. Collect data: Collect data from students' performance on the assessment tools. This is done by grading exams, projects and through surveys.
4. Analyze data: Once data has been collected, it is analyzed to determine how well students have achieved the course outcomes.
5. Use data to identify areas of improvement for the course.

Assessment Tools

Assessing CO is an iterative process that involves continuous refinement and improvement. Assessment tools are designed to evaluate the attainment of theCOs. It is important to select assessment tools that align with the specific COs of the course and to use multiple assessment tools to provide a comprehensive evaluation of student learning. The assessment tools are chosen based on the specific COs being assessed and the teaching methodologies being used in the course.

The evaluation of the COs involves the use of both direct and indirect assessment tools, with greater weightage assigned to the former. Specifically, 80% weightage is given to direct assessment tools, which include both internal assessments (20%) and external assessments (80%), whereas indirect assessment tools are assigned a weightage of 20%. The performance of students in both internal and external assessments is taken into account, with appropriate weightage assigned to each.

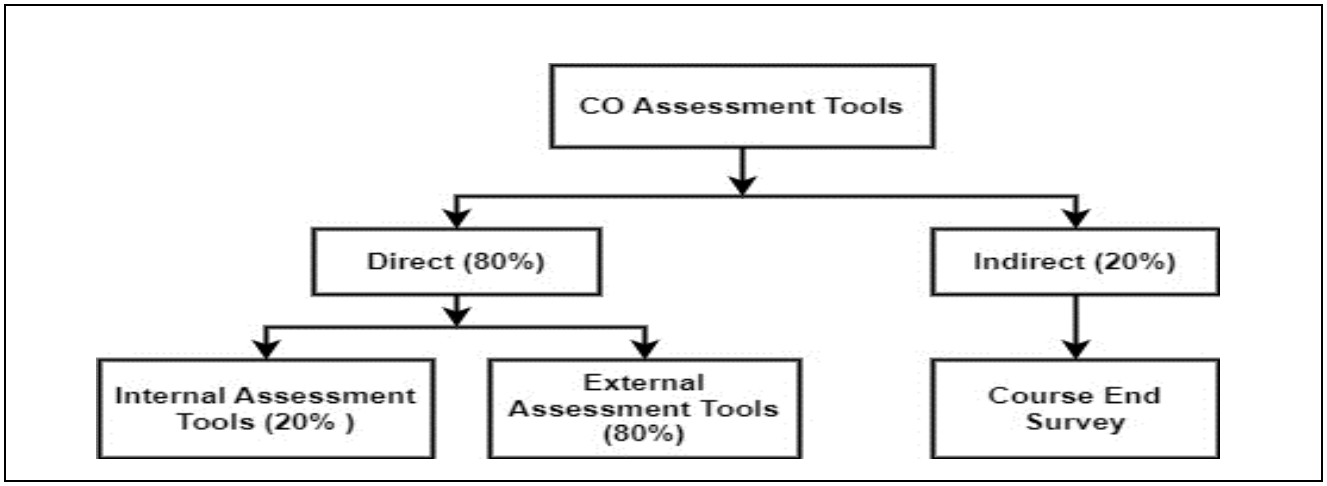


Figure 3.2.1.1: Assessment tools and its weightage

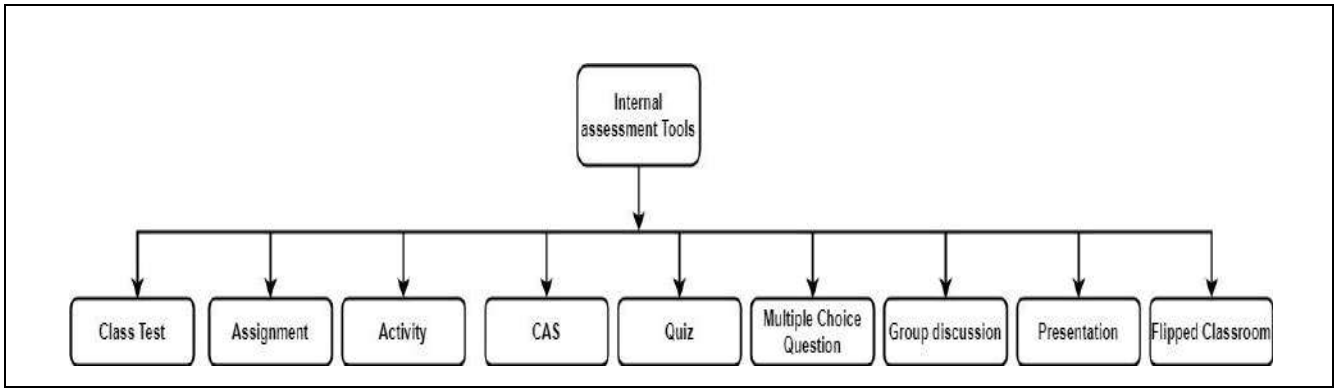


Figure 3.2.1.2: Internal Assessment tools

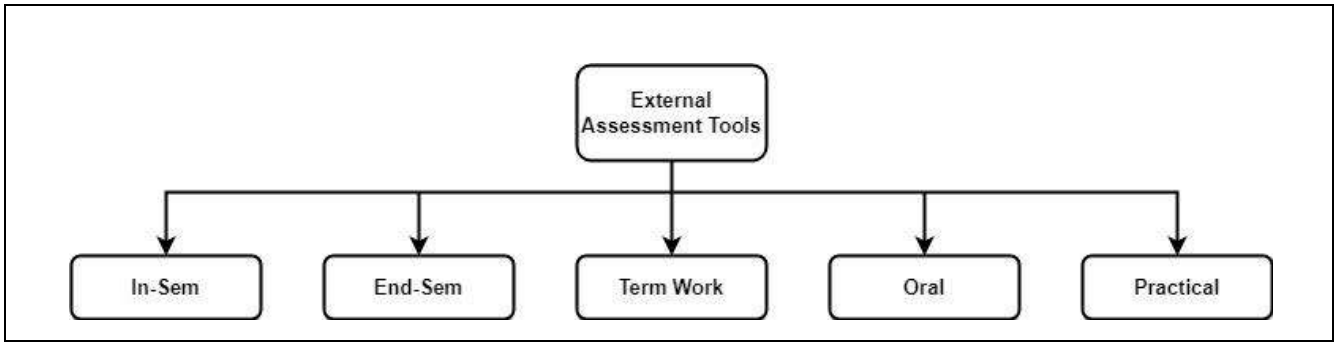


Figure 3.2.1.3: External Assessment tools

Direct Assessment Tools:

Internal Assessment:

In order to ensure that students are keeping up with the course content, primarily class tests and assignments are used as effective measures of their progress. The course is divided into six units, each of which is evaluated through appropriate assessment tools. Based on domain of COs such as cognitive, psychomotor or affective the assessment tool is selected and is mapped to the specific CO of the course. The direct internal assessment tools are class tests, quiz, multiple choice questions, group discussion, assignments, presentation, flipped classroom etc.

Practical sessions offer students a valuable opportunity to gain hands-on experience in applying the concepts they learn in class and to develop the skills necessary for success in their field of study. To assess students' performance in these practical aspects of the course, a Continuous Assessment Sheet (CAS) is used. This sheet evaluates several parameters, including regularity, quality of experiment write-ups, understanding and overall performance during each experiment.

The project work of the student is assessed through periodic project reviews. These reviews are conducted by the departmental project progress monitoring committee. Through reviews, teachers are able to track students' progress and provide constructive feedback to help them improve their skills and understanding of the project work.

External Assessment:

University Examination: The university conducts both in-semester and end-semester examinations to evaluate students' understanding of the course contents. In-semester and end-semester examination covers the entire syllabus and evaluates all COs. These examinations are designed to test students' knowledge and comprehension of the course contents, as well as their ability to apply that knowledge to real-world situations.

Practical and tutorial sessions conclude in an end-semester examination, which may take the form of a term work, oral examination, or practical examination. This evaluation is conducted by both an external and internal examiner. This ensures impartial and objective assessment. Through this examination, students are tested on their ability to apply the knowledge and skills they have acquired throughout the course to practical scenarios.

Indirect Assessment Tool:

A Course end survey is used as indirect assessment tool which is a feedback tool used to gather information from students at the conclusion of a course. Its purpose is to assess the effectiveness of the course. Typically administered in the final week of the course, the survey covers course content in the form of CO statements.

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels

Program shall have set Course Outcome attainment levels for all courses.

(The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect to the Course Outcomes of a course in addition to the performance in the University examination)

Evaluation of CO Attainment by Direct Assessment Tool

The evaluation of CO attainment by assessment tool involves a systematic process of collecting and analysing data to determine the extent to which the course outcomes have been met. The process of CO evaluation is as per flowchart shown below.

Attainment Levels

Attainment levels for COs are a measure of students' achievement in meeting the course objectives. These levels are assessed using a variety of tools, and the attainment level may be stated as a percentage of students expected to achieve a certain threshold of marks. The attainment level is then measured as the actual percentage of students who meet or exceed the set threshold.

The defined attainment levels are;

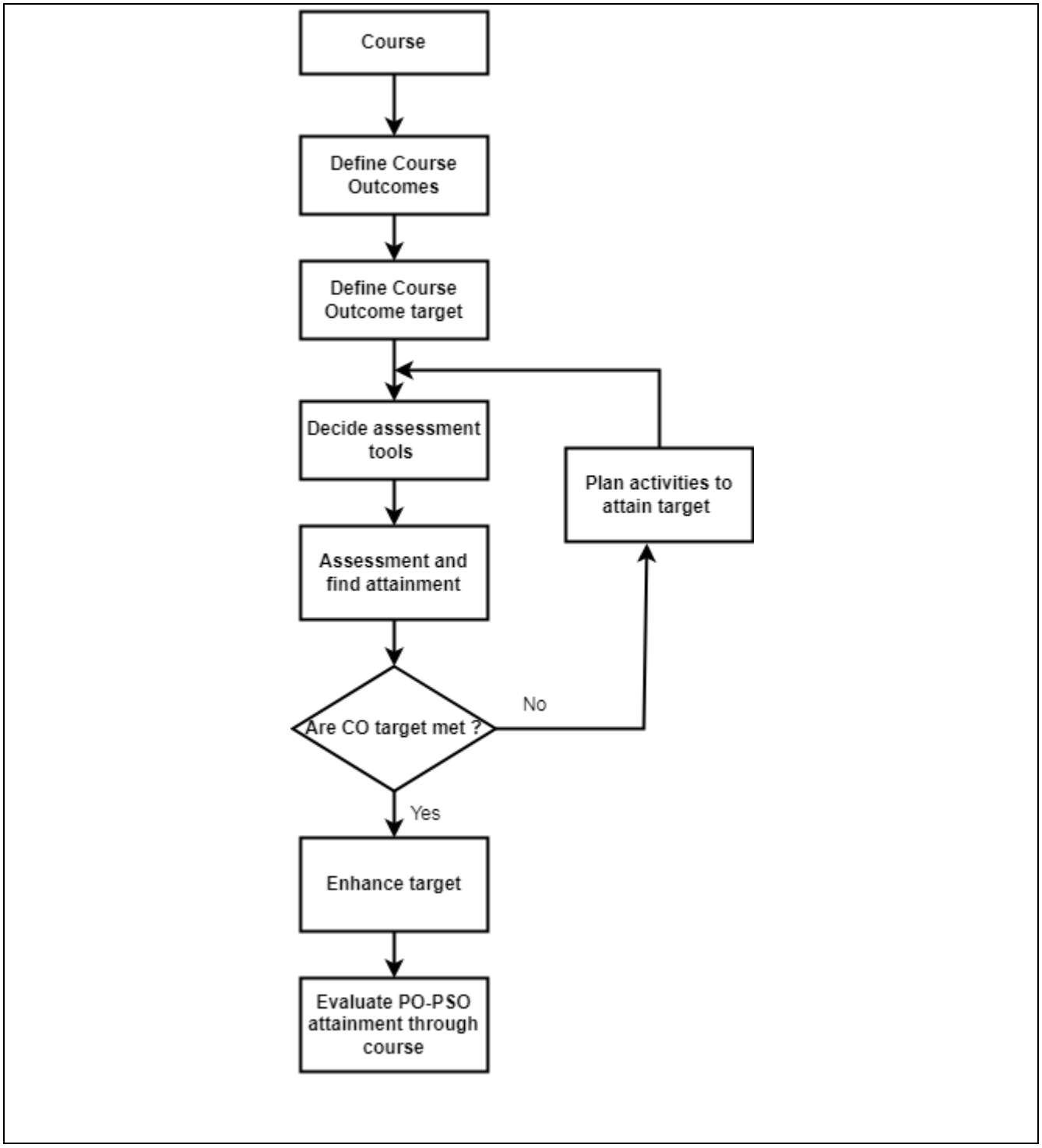


Figure 3.2.2.1: CO Evaluation Process

Attainment Level 1(A1):40% to less than 60% students scoring more than **60%** marks out of the relevant maximum marks.

Attainment Level 2(A2):60% to less than 70% students scoring more than **60%** marks out of the relevant maximum marks.

Attainment Level 3(A3):70% and more than 70% students scoring more than **60%** marks out of the relevant maximum marks.

Though 40% to 60% students are considered for attainment level 1, the percentage may vary from course to course. The course teacher decides this level from previous university examination results and the difficulty level of the course. Percentage of students for level 2 and 3 is changed subsequently.

Mapping of COs with Assessment Tools

Mapping COs with assessment tools is an important part of the assessment process and can help to ensure that student performance is evaluated consistently and effectively.

Weighted average method

The steps involved in calculation of CO attainment are as follows:

i. Decide the assessment tools to be employed in calculating CO attainment. These tools are based on the domain of course outcome.
ii. Establish the level of attainment for each tool used in the process, which will be measured on a scale of 1 to 3.
iii. Assign weights to each tool based on its maximum marks. The weight for each tool will be calculated as the ratio of its maximum marks to the total marks assigned for all selected tools.
iv. Multiply each tool's level of attainment by its corresponding weight.
v. Sum up the weighted attainment values for all the tools to get CO attainment.

For example, if three tools are used with maximum marks assigned as 20, 30, 40 (Total Maximum Marks = 90), and the CO attainment levels for the tools are 2, 1, and 3 then weights assigned are as (20/90), (30/90) and (40/90), respectively, based on the maximum marks for each tool in measuring the CO attainment.

To calculate the weighted average CO attainment, following formula is used:

$$\Sigma\, weightage * CO\ attainment$$

Weighted average CO attainment = (Tool 1 attainment * Weight 1) + (Tool 2 attainment * Weight 2) + (Tool 3 attainment * Weight 3) + ...

In the example above, the weighted average CO attainment would be:

Weighted average CO attainment = (2 * 20/90) + (1 * 30/90) + (3 * 40/90) = 2.11

Therefore, the weighted average CO attainment for the three tools is 2.11.

Table 3.2.2.1: Mapping of Cos with Assessment Tools

Assessment Tool	**Class Test 1**	**Assignment 1**	**CAS**	**In-Sem**	**Termwork**	**Practical**
COs Mapped	CO1	CO1	CO1	CO1, CO2	All COs	All COs
Maximum Marks	M1	M2	M3	M4	M5	M6
CO Attainment Level	A1	A2	A3	A1	A3	A2

Since different assessment tools are used to evaluate each CO, the average attainment of each CO will depend on the attainment level obtained from each tool. For instance, the average attainment level of CO1 will depend on the attainment levels obtained through various internal assessment tools, such as class test 1 or assignment 1 or CAS or other activity, as well as external assessment tools, such as In-Sem, End-Sem, Practical/Oral examination, and Term work. If an assessment tool is used for multiple COs, the maximum marks can be distributed equally among those COs.

Table 3.2.2.2: CO Attainment calculations for Internal Assessment Tools

Assessment Tool	**Class Test 1**	**Assignment 1**	**CAS**	
Marks for CO1	M1	M2	M3	Mint=M1+M2+M3
Weightage	WT1=M1/Mint	WAs1=M2/Mint	WCAS=M3/Mint	
CO Attainment	A1	A2	A3	
Average CO Attainment (Aint)		**Aint=WT1*A1+WAs1*A2+WCAS*A3**		

Table 3.2.2.3: CO Attainment calculations for External Assessment Tools

Assessment Tool	**In-Sem**	**Termwork**	**Practical**	
Marks for CO1	M4/2	M5/6	M6/6	Mext= (M4/2)+(M5/6) +(M6/6)

Weightage	WIn=(M4/2)/ Mext	WTw=(M5/6)/Mext	WPr=(M6/6)/Mext	
CO Attainment level	A1	A3	A2	
Average CO attainment(Aext)		**Aext=WIn*A1+WTw*A3+WPr*A2**		

The CO attainment level by direct tools is calculated by giving 20% weightage to the average CO attainment level obtained from internal assessment tools and 80% weightage to the average CO attainment level obtained from external assessment tools.

Direct CO attainment for CO1 = 0.2 * Aint + 0.8 * Aext

CO Attainment Level by Indirect Assessment Tool

At the end of each course, a course end survey form is created with questions directly linked to the COs. Responses to these questions are collected through forms that typically use a 1-3 scale (with low to high ratings). Average of all the responses to respective CO is considered as CO attainment. The data is then used to compute the indirect CO attainment, which is given a weightage of 20% in the overall CO attainment assessment.

Overall CO Attainment Level for Course

Thus, overall CO attainment for the course using all the tools is

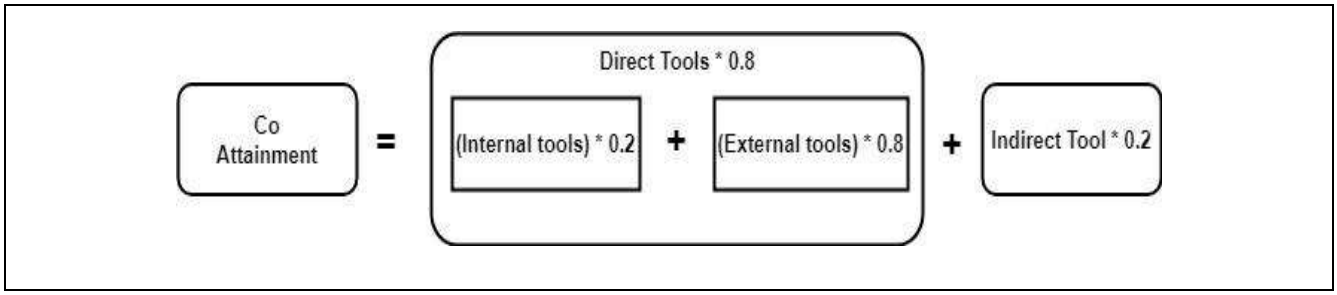


Figure 3.2.2.2: External Assessment tools

Table 3.2.2.4: CO Attainment for AY: 2017-18 to AY: 2020-21 (Cycle – 1)

Sr. No.	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
		AY:17-18 FE						
1	101005	Basic Civil and Environmental Engineering	2.9	2.9	2.48	2.48	1.69	1.69
2	101011	Engineering Mechanics	1.08	1.06	0.96	0.96	0.89	0.87
3	102006	Engineering Graphics I	1.84	1.84	1.84	1.84	1.3	1.3
4	102013	Basic Mechanical Engineering	1.59	1.59	1.59	1.59	1.69	1.69
5	102014	Engineering Graphics II	2.9	2.9	2.9	2.9	2.9	2.9

6	103004	Basic Electrical Engineering	1.55	1.55	1.55	1.55	1.62	1.62
7	104012	Basic Electronics Engineering	1.37	1.36	1.35	1.32	1.64	1.49
8	107001	Engineering Mathematics I	1.21	1.23	1.26	1.2	1.23	1
9	107002	Engineering Physics	2.98	2.98	2.43	2.43	1.77	1.77
10	107008	Engineering Mathematics II	1.3	1.3	1.3	1.3	1.3	1.3
11	107009	Engineering Chemistry	1.38	1.38	1.38	1.38	1.08	1.08
12	110003	Fundamentals of Programming Languages I	0.5	0.5	0.5	0.5		
13	110010	Fundamentals of Programming Languages II	1.25	1.25	1.25	1.25		
14	111007	Workshop Practice	3	3	3	3		
		AY:18-19 SE						
15	204181	Signals & Systems	1	1	1.72	1.74	1.61	1.61
16	204182	Electronic Devices & Circuits	1.44	1.42	1.4	1.58	1.75	1.77
17	204183	Electrical Circuits and Machines	1.23	1.33	1.23	1.2	1.3	1.32
18	204184	Data Structures and Algorithms	1.64	1.66	1.66	1.38	1.56	1.56
19	204185	Digital Electronics	1.6	1.64	1.62	1.64	1.77	1.81
20	204186	Electronic Measuring Instruments & Tools	2.96	2.98	2.98	2.96	2.98	2.98
21	204192	Audit Course 1 (Japanese Language Module 1)	3	3	3	3		
22	207005	Engineering Mathematics III	1.55	1.54	1.55	1.55	1.74	1.76
23	204187	Integrated Circuits	1.49	1.51	1.51	1.51	1.86	1.88
24	204188	Control Systems	0.86	0.86	0.99	0.99	0.97	0.96
25	204189	Analog Communication	1.81	1.82	1.8	1.89	1.99	1.99
26	204190	Object Oriented Programming	1.8	1.82	1.82	1.8	2.71	2.71
27	204191	Employability Skill Development	2.88	2.94	2.94	2.88		
28	204193	Japanese Language module-II	3	3	3	3		
		AY:19-20 TE						
29	304181	Digital Communication	1.61	1.5	1.15	1.5	1.54	1.5
30	304182	Digital Signal Processing	1.55	1.57	1.5	1.57	1.55	1.6
31	304183	Electromagnetics	1.05	1.05	1.05	1.05	1.04	1.05
32	304184	Microcontrollers	1.67	1.66	2.01	1.99	1.98	1.96
33	304185	Mechatronics	2.22	2.24	2.2	1.99	2.01	2.01
34	304193	Electronics System Design	0.82	0.84	0.85	0.83	0.83	
35		Audit Course Cyber and Information Security	3	3				
36	304186	Power Electronics	2.96	2.98	2.98	2.96	2.98	2.98
37	304187	Information Theory, Coding and Communication Networks	1.91	1.91	2.28	2.31	2.27	2.24
38	304188	Business Management	1.92	1.92	1.9	1.52	1.52	1.52
39	304189	Advanced Processors	1.86	1.88	1.99	2.05	2.07	2.1
40	304190	System Programming and Operating Systems	2.94	2.96	2.97	2.96	2.98	2.97
41	304196	Employability Skills and Mini Project	2.9	2.92	2.94	2.92	2.92	
42		Embedded System Using MSP430	3	3	3			
		AY:2020-21 BE						
43	404181	VLSI Design& Technology	2.88	2.84	2.88	2.86	2.88	2.88
44	404182	Computer Networks & Security	2.9	2.94	2.9	2.9	2.94	2.9
45	404183	Radiation & Microwave Techniques	2.48	2.47	2.49	2.28	2.3	2.3
46	404184	Internet of Things	2.58	2.58	2.52	2.01	2.03	2.03

47	404185	Artificial Intelligence	2.92	2.91	2.93	2.91	2.92	2.92
48	404188	Project Stage I	2.98	2.97	2.98	2.97	2.98	2.98
49		Audit course-Human Behaviour	3	3	3			
50	404189	Mobile Communication	2.05	2.05	2.03	2.93	2.92	2.92
51	404190	Broadband Communication Systems	2.9	2.98	2.96	2.92	2.91	2.91
52	404191	Audio Video Engineering	2.9	2.98	2.96	2.92	2.91	2.91
53	404191	Machine Learning	2.9	2.84	2.9	2.94	2.9	2.9
54	404192	Renewable Energy Systems	2.9	2.92	2.94	2.92	2.92	3
55	404195	Project Stage II	2.99	2.98	2.99	2.99	2.98	2.99
56		Audit Course-Environment Issues & Discusser Management	3	3				

Table 3.2.2.5: CO Attainment for AY: 2018-19 to AY: 2021-22 (Cycle – 2)

Sr. No	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
		AY:18-19 FE						
1	1E+05	Basic Civil and Environmental Engineering	2.35	2.35	2.35	2.35	2.35	2.35
2	1E+05	Engineering Mechanics	1.5	1.5	1.5	1.5	1.5	1.5
3	1E+05	Engineering Graphics I	1.5	1.5	1.5	1.5	1.5	1.5
4	1E+05	Basic Mechanical Engineering	1.5	1.5	1.5	1.5	1.5	1.5
5	1E+05	Engineering Graphics II	2.9	2.9	2.9	2.9	2.9	2.9
6	1E+05	Basic Electrical Engineering	1.5	1.5	1.5	1.5	1.5	1.5
7	1E+05	Basic Electronics Engineering	1.42	1.42	1.42	1.42	1.42	1.42
8	1E+05	Engineering Mathematics I	1.5	1.5	1.5	1.5	1.5	1.5
9	1E+05	Engineering Physics	1.5	1.5	1.5	1.5	1.5	1.5
10	1E+05	Engineering Mathematics II	1.5	1.5	1.5	1.5	1.5	1.5
11	1E+05	Engineering Chemistry	1.5	1.5	1.5	1.5	1.5	1.5
12	1E+05	Fundamentals of Programming Languages I	1.5	1.5	1.5	1.5		
13	1E+05	Fundamentals of Programming Languages II	1.5	1.5	1.5	1.5		
14	1E+05	Workshop Practice	3	3	3	3		
		AY:19-20 SE						
15	2E+05	Signals & Systems	1.47	1.45	1.77	1.79	1.72	1.72
16	2E+05	Electronic Devices & Circuits	1.43	1.43	1.43	1.47	1.4	1.41
17	2E+05	Electrical Circuits and Machines	1.2	1.18	1.2	1.22	1.63	1.57
18	2E+05	Data Structures and Algorithms	2.36	2.38	2.38	2.36	2.98	2.98
19	2E+05	Digital Electronics	2.06	2.04	2.1	2.1	2.2	2.2
20	2E+05	Electronic Measuring Instruments & Tools	2.96	2.98	2.98	2.96	2.98	2.98
21	2E+05	Audit Course 1 (Japanese Language Module 1)	3	3	3	3		
22	2E+05	Engineering Mathematics III	2.81	2.81	2.78	2.78	2.88	2.69
23	2E+05	Integrated Circuits	2.56	2.58	2.94	2.92	2.9	2.92
24	2E+05	Control Systems	2.98	3	2.99	2.99	2.99	2.99
25	2E+05	Analog Communication	2.74	2.72	2.89	2.83	2.94	2.89
26	2E+05	Object Oriented Programming	2.94	2.96	2.97	2.96	2.98	2.97
27	2E+05	Employability Skill Development	2.88	2.96	2.96	2.88		
28	2E+05	Japanese Language module-II	3	3	3	3		
		AY:20-21 TE						

29	3E+05	Digital Communication	2.84	2.76	2.77	2.88	2.76	2.76
30	3E+05	Digital Signal Processing	2.9	2.86	2.9	2.9	2.9	2.86
31	3E+05	Electromagnetics	2.9	2.9	2.96	2.92	2.91	2.91
32	3E+05	Microcontrollers	2.75	2.83	2.81	2.85	2.81	2.83
33	3E+05	Mechatronics	2.98	3	2.99	2.99	2.99	2.99
34	3E+05	Electronics System Design	2.9	2.92	2.94	2.92	2.92	
35		Audit Course Cyber and Information Security	3	3				
36	3E+05	Power Electronics	3.00	3.00	3.00	3.00	2.84	2.84
37	3E+05	Information Theory, Coding and Communication Networks	2.9	2.98	2.96	2.92	2.91	2.91
38	3E+05	Business Management	2.8	2.8	2.8	2.8	2.8	2.8
39	3E+05	Advanced Processors	2.7	2.8	2.8	2.7	2.78	2.78
40	3E+05	System Programming and Operating Systems	2.94	2.96	2.97	2.96	2.98	2.97
41	3E+05	Employability Skills and Mini Project	2.9	2.87	2.83	2.92	2.92	
42		Embedded System Using MSP430	3	3	3			
		AY:2021-22 BE						
43	4E+05	VLSI Design& Technology	2.81	2.77	2.62	2.62	2.81	2.81
44	4E+05	Computer Networks & Security	2.9	2.94	2.9	2.9	2.9	2.86
45	4E+05	Radiation & Microwave Techniques	2.94	2.92	2.63	2.65	2.61	2.61
46	4E+05	Internet of Things	2.67	2.78	2.85	2.54	2.42	3
47	4E+05	Artificial Intelligence	2.92	2.91	2.93	2.91	2.92	2.92
48	4E+05	Electronics Product Design	2.6	2.8	2.8	2.6	2.8	2.8
49	4E+05	Embedded system and RTOS	1.42	1.4	1.4	1.42	1.41	1.42
50	4E+05	Project Stage I	3	3	3	3	3	3
51		Audit course-Human Behaviour	3	3	3			
52	4E+05	Mobile Communication	2.21	2.24	2.24	2.63	2.61	2.61
53	4E+05	Broadband Communication Systems	2.61	2.56	2.53	2.37	2.37	2.14
54	4E+05	Machine Learning	2.26	2.66	2.68	2.3	2.3	1.96
55	4E+05	Renewable Energy Systems	1.24	1.28	1.28	1.68	1.66	1.68
56	4E+05	Project Stage II	2.98	2.96	2.97	2.99	3	3
57		Audit Course-Environment Issues & Discusser Management	3	3				

Table 3.2.2.6: CO Attainment for AY: 2019-20 to AY: 2022-23 (Cycle – 3)

Sr. No	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
		AY:19-20 FE						
1	107001	Enggineering Mathematics - I	2.9	2.74	2.06	2.06	2.06	2.06
2	107002	Engineering Physics	1.98	1.98	1.79	1.62	1.95	1.78
3	102003	SME	1.73	1.84	1.3	1.07	1.3	1.17
4	103004	Basic Electrical Engineeirng	2	2.08	1.6	1.59	1.54	1.59
5	110005	PPS	2.54	2.78	2.03	2.26	2.27	2.26
6	111006	Workshop Practices	2.92	2.92	2.92	2.92		
7	107008	Engineering Mathamatics II	1.58	1.58	1.79	1.78	1.82	1.59
8	107009	Engineering Chemistry	1.78	1.9	1.87	1.62	1.83	1.7
9	104010	Basic Electronics Engineeirng	1.6	1.54	1.69	1.66	1.65	1.65

10	101011	Engineering Mechanics	1.72	1.84	1.82	1.68	1.7	1.68
11	102012	Engineering Graphics	2.61	2.83	1.88	1.86	1.88	1.86
12	110013	PBL	3	3	3	3	3	3
		AY:20-21 SE						
13	207005	Engineering Mathematics III	2.9	2.9	1.36	1.34	1.36	1.34
14	204181	Electronic Circuits	2.92	2.94	2.94	2.92	2.96	2.94
15	204182	Digital Circuit	2.8	2.98	2.85	2.97	2.99	2.98
16	204183	Electrical Circuits	2.94	2.92	2.92	2.88	2.94	2.9
17	204184	Data structures	2.96	2.98	2.98	2.96	2.98	2.98
18	204189	Electronic Skill Development	2.9	2.94	2.9	2.9		
19	204190	Audit Course- German Language 1	3	3	3	3		
20	204191	Signals & Systems	2.11	2.11	2.21	2.23	2.19	2.17
21	204192	Control Systems	2.94	2.94	2.94	2.96	2.92	2.9
22	204193	Principles of Communication Systems	2.8	2.8	2.82	2.86	2.8	2.8
23	204194	Object Oriented Programming	2.96	2.98	2.98	2.96	2.98	2.98
24	204198	Data Analytics Lab	2.8	2.83	2.8	2.78	2.78	2.78
25	204199	Employability Skill Development	2.9	2.9	2.88	2.92	2.9	
26	204200	Project Based Learning	3	3	3	3	3	3
27	204201	Audit Course-Enhancing Softskills	3	3	3			
		AY:21-22 TE						
28	304181	Digital Communication	3	3	3	3	3	3
29	304182	Electromagnetic Field Theory	2.97	2.97	2.97	2.97	2.96	2.71
30	304183	Database Management	3	3	3	3	3	3
31	304184	Microcontroller	2.7	2.8	2.8	2.7	2.8	2.8
32	304185	Fundamentals of JAVA Programming	2.6	2.96	2.92	2.92	2.92	2.94
33	304185	Computer Networks	2.9	2.94	2.9	2.9	2.94	2.9
34	304190	Skill Development	3	2.4	2.8	2.9	3	3
35	304191A	Audit Course- Entrepreneurship and Intellectual Property (IP) Strategy	3	3	3			
36	304192	Cellular Networks	1.46	1.47	1.39	1.44	1.39	1.4
37	304193	Project Management	1.4	1.4	0.6	0.6	0.6	0.6
38	304194	Power Devices & Circuits	1.3	1.6	1.8	1.5	1.4	1.7
39	304195	Advanced JAVA Programming	2	2.12	2.19	2.24	2.22	2.2
40	304195	Network Security	2.9	2.94	1.87	1.86	1.91	1.86
41	304199	Internship	3	3	3	3	3	
42	304200	Mini Project	2.9	2.92	2.94	2.92	2.92	
43	304191B	Audit Course-Energy Resources, Economics and Environment	3	3	3			
		AY:2022-23 BE						
44	404181	Radiation & Microwave Theory	1.32	1.32	1.32	1.29	1.29	1.3
45	404182	VLSI Design and Technology	1.23	1.34	1.52	1.32	1.42	1.5
46	404183	Cloud Computing	2.49	2.5	1.74	1.82	1.79	1.79
47	404184	Modernized IoT	2.58	2.59	2.94	2.95	2.85	2.87
48	404184	JAVA Script	1.79	1.86	2.94	2.98	2.97	2.98
49	404185	Deep Learning	2.4	2.92	1.78	1.78	1.94	2.28
50	404185	Electronic Product Development	2	1.8	0.72	0.52	0.72	0.72

51	404188	Project Stage - I	3	3	3	3	3	3
52	404189	Mandatory Audit Course 7(Human Resource Development)	3	3				
53	404190	Fiber Optic Communication	2.97	1.97	1.94	2.25	2.08	1.94
54	404191	Mobile Computing	2.96	2.96	1.87	1.91	2.3	2.46
55	404192	Digital Marketing	2.97	2.81	0.58	0.43	0.79	0.91
56	404193	Innovation & Entrepreneurship	2.98	2.98	2.34	2.65	2.43	2.98
57	404194	Digital Business Management	2.98	2.96	2.76	2.97	2.98	2.87
58	404197	Project Stage - II	3	3	3	3	3	3

3.3 Attainment of Program Outcomes and Program Specific Outcomes

3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes

(Describe the assessment tools and processes used together the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

To ensure alignment of CO with Program Outcomes (PO) and Program Specific Outcomes (PSO), a bottom to top process is employed, where outcomes are cascaded from CO to PO-PSO.

Assessing PO and PSO typically involves gathering evidence of student learning, analysing that evidence, and using it to improve teaching and learning. Process of assessment of POs and PSOs is as per flowchart shown below.

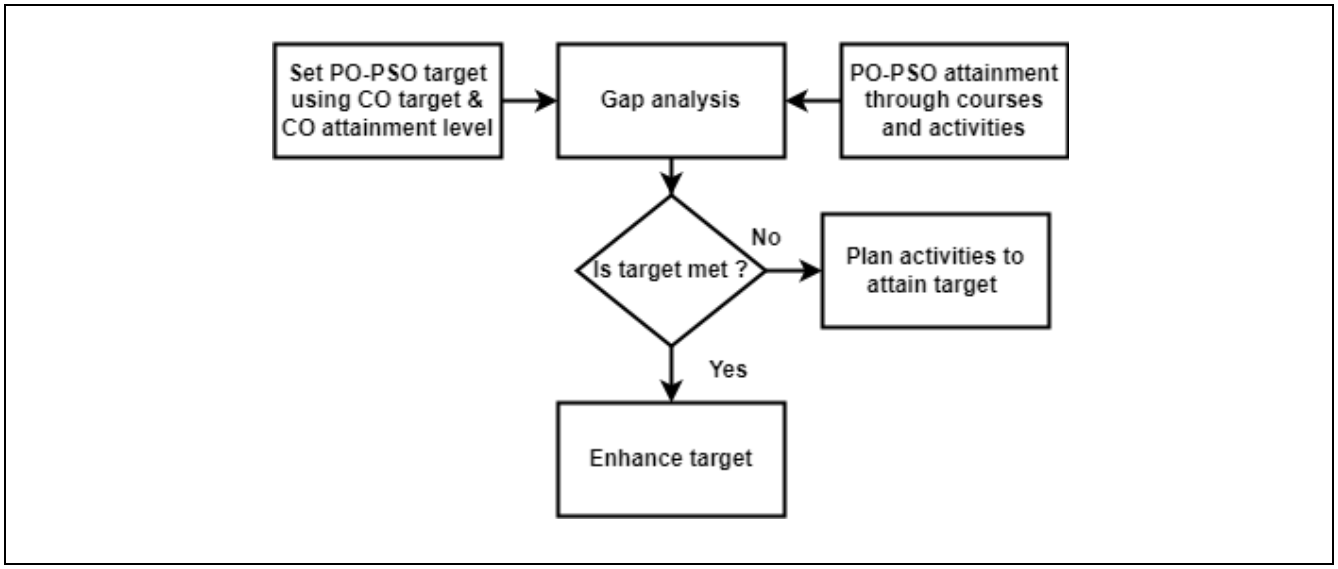


Figure 3.3.1.1: POs and PSOs Assessment Process

POs and PSOs Assessment tools

POs and PSOs assessment tools are used to evaluate the overall effectiveness of a program and to ensure that it meets the required standards. The evaluation of the POs and PSOs involves the use of both direct and indirect assessment tools:

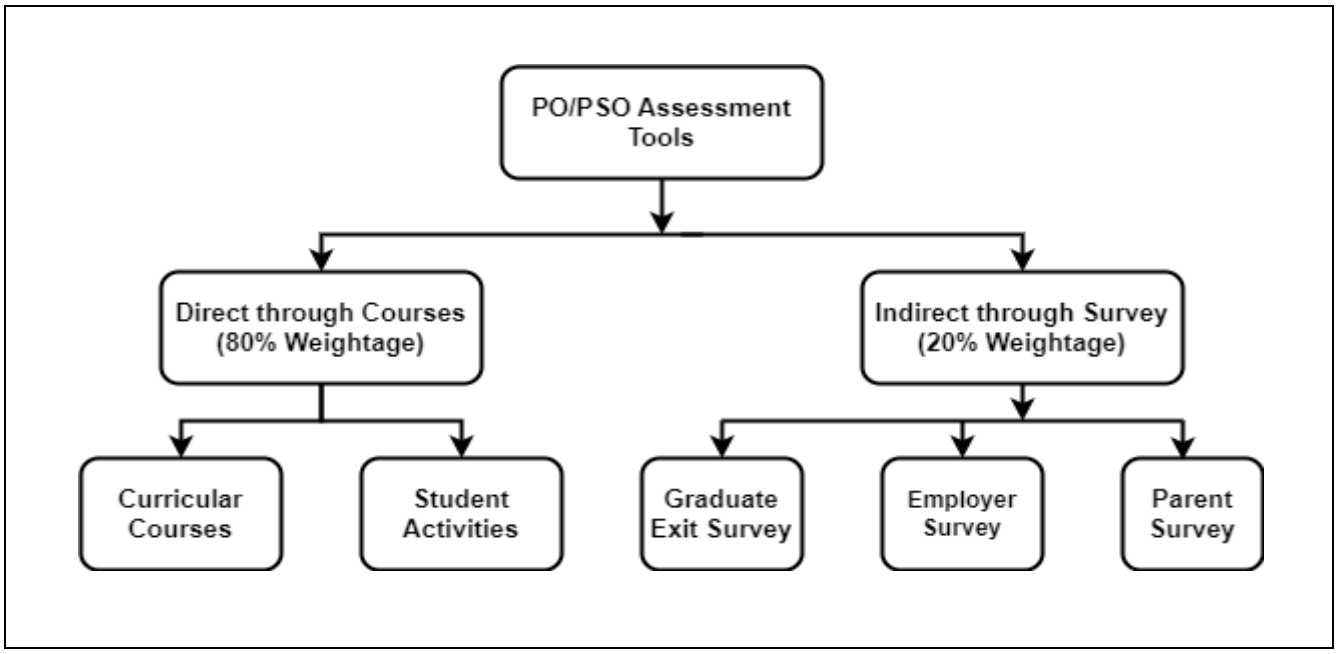


Figure 3.3.1.2: POs and PSOs Assessment tools

Direct Assessment tools:

The CO directly contributes to the assessment of POs and PSOs.

Indirect Assessment Tools:

The department conducts various activities for multidimensional growth of students. The students actively participate in social activities organized by the department and NSS cell. Students participate in various technical and cultural competitions. Department has many clubs and student chapters of professional bodies. These clubs provide a vibrant platform for students to hone their abilities.

In addition, various surveys, such as exit surveys, parent feedback, employer's feedback and student satisfaction surveys are conducted. Exit surveys are conducted with graduating students to evaluate the overall effectiveness of the program.

Attainment of POs and PSOs

Direct assessment of POs and PSOs is based on the attainment levels of COs and the degree of correlation between them.

Sample calculation for POs and PSOs attainment is described in following three steps:

Step – 1

CO Attainment and CO – POs and PSOs mapping is defined for course by correlation level low to high (1 to 3).

Table 3.3.1.1: CO-POs and PSOsMapping

Course Outcomes	CO Attainment	PO1	PO2	PO3	PSO1
CO1	2.5	3	1		
CO2	2.8	3	2	1	1
CO3	2.3	2	2		2
CO4	1.5	2	1	1	1
CO5	2.0	1	1		
CO6	3.0	3	3		

Step – 2

Direct POs and PSOsattainment is calculated using following formula:

POs and PSOsattainment = (Level of Mapping of CO with PO/PSO * CO attainment Level) / 3

Table 3.3.1.2: POs and PSOsAttainment Calculations

Course Outcomes	CO Attainment	PO1	PO2	PO3	PSO1
CO1	2.5	=2.5*3/3	=2.5*1/3		
CO2	2.8	=2.8*3/3	=2.8*2/3	=2.8*1/3	=2.8*1/3
CO3	2.3	=2.3*2/3	=2.3*2/3		=2.3*2/3
CO4	1.5	=1.5*2/3	=1.5*1/3	1.5*1/3	=1.5*1/3
CO5	2.0	=2.0*1/3	=2.0*1/3		
CO6	3.0	=3.0*3/3	=3.0*3/3		

Step – 3

POs and PSOsattainment is calculated by taking the average of POs and PSOsattainment by each CO attainment.

Table 3.3.1.3:Average POs and PSOsAttainment by Course

Course Outcomes	CO Attainment	PO1	PO2	PO3	PSO1
CO1	2.5	2.5	0.83		
CO2	2.8	2.8	1.87	0.93	0.93
CO3	2.3	1.53	1.53		1.53
CO4	1.5	1.00	0.50	0.50	0.50
CO5	2.0	0.67	0.67		
CO6	3.0	3.00	3.00		
Average POs and PSOs Attainment		**1.92**	**1.40**	**0.72**	**0.99**

Attainment of POs and PSOs through Indirect Tools

By combining direct and indirect tools, department gain a more comprehensive understanding of the program's effectiveness in achieving its intended learning outcomes. Graduate Exit Survey, Employer Survey and Parents Feedback are conducted at the end of the program. The department conducts surveys using a relevant questionnaire in order to assess the attainment of POs and PSOs. The questionnaire provides 5 response options, namely Excellent, Very Good, Good, Average, and Poor, which are assigned scores of 5, 4, 3, 2, and 1, respectively. The survey results are then tabulated, and the average scores for each PO and PSO are calculated. To determine the attainment level for each PO and PSO, the average score is converted to a scale of 0 to 3.

For indirect POs and PSOsattainment 20% weightage is given.

Total PO/PSO attainment =Direct Attainment by all courses * 0.8 + Indirect Attainment * 0.2

The template used to execute Graduate Exit Survey is as follows.

Graduate Exit Survey: Relevant questionnaire in graduate Exit survey form to evaluate attainment of POs and PSOs, and relation of POs & PSOs with questionnaire is given below

Questionnaire Format

Kindly rate the following criteria on a scale of 1-5. Your genuine response will be helpful for the continuous quality improvement of our UG programme.

5. Excellent **4.**Very Good **3.** Good **2.** Average **1.** Poor

Q. No.	Question
Q1	Are you able to apply knowledge of Mathematics, Science and Engineering in real time from value added certifications, workshops and training programs conducted during your stay in college?
Q2	Are you able to apply engineering knowledge to design experiments, analyze and interpret data to obtain valid conclusions?
Q3	Are you able to identify and design a solution for E&TC engineering problem with an appropriate consideration for the public health and safety and the cultural, societal, and environmental considerations?
Q4	Are you able to conveniently investigate complex problems using research-oriented knowledge and methods to provide appropriate solution through courses and project?
Q5	Are you able to use techniques, skills and modern engineering and IT tools necessary for engineering practice through internship, laboratories and various clubs?
Q6	Are you able to grasp the impact of professional engineering solutions in the context of society and environment and apply it for sustainable development?
Q7	Are you able to understand that you have about the available resources and ensure judicious use of them without affecting the environment for sustainable progress ?
Q8	Are you able to apply ethical principles and commitment to professional ethics and responsibilities acquired through courses, project, seminar and Gymkhana activities?
Q9	Are you able to lead team / work in team / work as an individual gained from the co-curricular and extracurricular activities?
Q10	Are you able to communicate effectively, write precise reports, design documentation applying the engineering knowledge, speaking in a large group which you have acquired?
Q11	Are you able to complete interdisciplinary projects and carry them out in time and utilize fund in a meaningful way with the training provided by the department, through various activities of student chapter and clubs?
Q12	Are you able to work as a successful self-reliant engineer with the training provided by department, entrepreneurship development cell, Innovation cell and Audit courses etc?
Q13	Have you acquired competencies in analyzing, designing and testing, analog and digital circuits and systems for given application?
Q14	Have you developed skills to implement technical blocks of hardware – software co-design for Embedded &Robotics automation application?
Q15	Have you acquired an ability to apply knowledge of the E & TC system for social and environmental problems as an individual member or leader of a diverse team in multidisciplinary settings?

Relation of POs and PSOs with questionnaire of Graduate Exit Survey

Question	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Question	Q9	Q10	Q11	Q12	Q13	Q14	Q15	
PO/PSO	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	

Table 3.3.1.4: PO Attainment for AY: 2017-18 to AY: 2020-21 (Cycle – 1)

Sr. No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		AY:17-18 FE												
1	101005	Basic Civil and Environmental Engineering	1.57	1.5	0.56	0.83	0.83	0.76	0.8					
2	101011	Engineering Mechanics	0.51	0.5	0.24									
3	102006	Engineering Graphics I	1.66	1.1								0.55		
4	102013	Basic Mechanical Engineering	0.85	0.7										
5	102014	Engineering Graphics II	1.93	1			0.97							
6	103004	Basic Electrical Engineering	1.18	0.4	0.39									
7	104012	Basic Electronics Engineering	0.72	0.4	0.37		0.4							
8	107001	Engineering Mathematics I	0.86	0.6	0.29									
9	107002	Engineering Physics	1.4	1	0.77		0.72							
10	107008	Engineering Mathematics II	0.86	0.6	0.29									
11	107009	Engineering Chemistry	0.99	0.3	0.33									
12	110003	Fundamentals of Programming Languages I	0.5	0.3	0.17		0.33							
13	110010	Fundamentals of Programming Languages II	0.45	0.3	0.15		0.3							
14	111007	Workshop Practice	2	1	1			1						
		AY:18-19 SE												
15	204181	Signals & Systems	1.44	1.4	0.48	0.48				0.5		0.48		
16	204182	Electronic Devices & Circuits	1.12	1	1.08	0.96	0.97							
17	204183	Electrical Circuits and Machines	1.27	1.3	0.42	0.42				0.4		0.42		
18	204184	Data Structures and Algorithms	0.95	1.2	0.78	0.8	1.57			0.5		0.52		
19	204185	Digital Electronics	1.31	1.1	0.83	0.83	1.12			0.6		0.56		
20	204186	Electronic Measuring Instruments & Tools	1.16	1.7	0.99	0.99	0.99	0.99	1	2	2.97	2.64		0.99
21	204192	Audit Course 1 (Japanese Language Module 1)										2.5		2
22	207005	Engineering Mathematics III	1.61	1.1	0.54									
23	204187	Integrated Circuits	1.63	1.6	0.54	0.54				0.5		0.54		
24	204188	Control Systems	0.31	0.6	0.31	0.31				0.3		0.31		
25	204189	Analog Communication	1.66	0.9		0.66	1.2	0.61		0.6	0.62			
26	204190	Object Oriented Programming	1.21	1.7	1.06	1.01	2.11			0.7		0.7		
27	204191	Employability Skill Development	1.22	1.5	0.97	0.97	0.97	0.96	1	1.9	2.91	2.43		0.97
28	204193	Japanese Language module-II										2.5		2
		AY: 19-20 TE												
29	304181	Digital Communication	1.47	1.5	1.47	0.51		0.49		0.5		0.49		
30	304182	Digital Signal Processing	1.56	1.6	1.3	1.12	0.52			0.5		0.52		

31	304183	Electromagnetics	1.05	0.7	0.35	0.35	0.35					0.35		
32	304184	Microcontrollers	1.25	1.9	1.67	1.27	1.27			0.6		0.63		
33	304185	Mechatronics	1.18	1.1	1.45	1.04	1.39	0.67	0.7					
34	304193	Electronics System Design	0.84	0.8	0.56	0.28	0.56			0.3	0.28	0.28		
35		Audit Course Cyber and Information Security	2	2				2		3		1		1
36	304186	Power Electronics	2.31	2.8	1.32	2.15	1.98			1		0.99		
37	304187	Information Theory, Coding and Communication Networks	2.15	2.2	1.55	1.19	1.4			0.7		0.72		
38	304188	Business Management	0.51	1.3	1.26		1.26	1.26	1	1.1	1.04	0.69	1.01	0.51
39	304189	Advanced Processors	1.33	2	1.67	0.68	1.36			0.7		0.66		
40	304190	System Programming and Operating Systems	1.81	2.3	1.48	1.48	2.97			1		0.99		
41	304196	Employability Skills and Mini Project	2.92	2.9	2.92	2.92	2.92	1.95	2	2	2.92	2.92	2.92	1.95
42		Embedded System Using MSP430	2	2				2				2		2
		AY:2019-20 BE												
43	404181	VLSI Design& Technology	1.76	2.1	2.71	2.23	2.87	0.96	1			1.92		
44	404182	Computer Networks & Security	2.91	2.9	1.62	1.62	1.62			1		0.97		
45	404183	Radiation & Microwave Techniques	2.39	2.4		0.8				0.8		0.8		
46	404184	Internet of Things	1.82	1.9	1.89	1.8	1.77	0.68		0.8		0.88		0.68
47	404185	Artificial Intelligence	1.94	1.9	1.94	2.92	2.92			1				1.94
48	404188	Project Stage I	2.48	3	2.48	2.98	2.48	2.48	3	2.5	2.48	2.48	2.98	2.98
49		Audit course-Human Behaviour						2		2	2	2		2
50	404189	Mobile Communication	2.48	1.2	0.97	1.51	0.76					0.76		
51	404190	Broadband Communication Systems	2.91	2.9	2.91	0.97		0.97		1		0.97		
52	404191	Audio Video Engineering	0.98	1	0.98	0.98	1.96		1.9					0.98
53	404191	Machine Learning	2.57	2.5	1.93	2.31	2.42	0.97		1	0.97	1.13	0.97	0.97
54	404192	Renewable Energy Systems	2.12	1.8	0.98	1.96		1.96	2.1					
55	404195	Project Stage II	2.99	3	2.99	2.98	2.66	2	2	2.5	2.99	2.98	2.49	2.98
56		Audit Course-Environment Issues & Discusser Management						2	2	2				2
		Average Direct Attainment through co and Extra Curricular courses	**1.54**	**1.47**	**1.13**	**1.29**	**1.48**	**1.39**	**1.56**	**1.12**	**2.02**	**1.24**	**1.77**	**1.70**
		Average Indirect attainment	**2.36**	**2.46**	**2.42**	**2.31**	**2.46**	**2.33**	**2.29**	**2.44**	**2.51**	**2.24**	**2.41**	**2.32**
		Total Attainment	**1.71**	**1.67**	**1.39**	**1.49**	**1.67**	**1.57**	**1.70**	**1.38**	**2.11**	**1.44**	**1.90**	**1.82**

Table 3.3.1.5: PSO Attainment for AY: 2017-18 to AY: 2020-21 (Cycle – 1)

Sr. No.	Course Code	Course Name	PSO1	PSO2	PSO3
		AY:17-18 FE			
1	101005	Basic Civil and Environmental Engineering			
2	101011	Engineering Mechanics			
3	102006	Engineering Graphics I			
4	102013	Basic Mechanical Engineering			
5	102014	Engineering Graphics II			
6	103004	Basic Electrical Engineering	0.59	0.39	
7	104012	Basic Electronics Engineering	0.74	0.68	0.36
8	107001	Engineering Mathematics I	0.29		

9	107002	Engineering Physics	0.7	0.7	
10	107008	Engineering Mathematics II	0.29		
11	107009	Engineering Chemistry			
12	110003	Fundamentals of Programming Languages I			
13	110010	Fundamentals of Programming Languages II			
14	111007	Workshop Practice			
		AY:18-19 SE			
15	204181	Signals & Systems	0.96	0.48	
16	204182	Electronic Devices & Circuits	0.98	0.97	
17	204183	Electrical Circuits and Machines	0.85	0.42	
18	204184	Data Structures and Algorithms	1.05	0.55	0.52
19	204185	Digital Electronics	0.83	0.55	
20	204186	Electronic Measuring Instruments & Tools	0.99	0.99	2.97
21	204192	Audit Course 1 (Japanese Language Module 1)			
22	207005	Engineering Mathematics III	0.55		
23	204187	Integrated Circuits	1.63	1.08	
24	204188	Control Systems	0.31	0.31	
25	204189	Analog Communication	0.63		0.75
26	204190	Object Oriented Programming	1.41	0.6	
27	204191	Employability Skill Development	0.97	0.97	2.91
28	204193	Japanese Language module-II			
		AY: 19-20 TE			
29	304181	Digital Communication	1.02		
30	304182	Digital Signal Processing	0.52	0.52	
31	304183	Electromagnetics	1.05	0.35	
32	304184	Microcontrollers	0.63	1.67	0.63
33	304185	Mechatronics	0.96	1.78	1.61
34	304193	Electronics System Design	0.84	0.84	0.56
35		Audit Course Cyber and Information Security		1	
36	304186	Power Electronics	2.31	2.31	0.99
37	304187	Information Theory, Coding and Communication Networks	1.65		
38	304188	Business Management			0.57
39	304189	Advanced Processors	0.66	1.66	
40	304190	System Programming and Operating Systems	1.98	0.98	
41	304196	Employability Skills and Mini Project	2.92	2.92	2.92
42		Embedded System Using MSP430	1	2	
		AY:2019-20 BE			
43	404181	VLSI Design& Technology	2.55	0.96	0.96
44	404182	Computer Networks & Security	0.97	0.97	
45	404183	Radiation & Microwave Techniques	1.59	0.8	
46	404184	Internet of Things	1.5	1.89	0.77
47	404185	Artificial Intelligence	2.92	1.62	
48	404188	Project Stage I	2.98	2.64	2.15
49		Audit course-Human Behavior			2
50	404189	Mobile Communication		0.83	0.83

51	404190	Broadband Communication Systems	2.91		
52	404191	Audio Video Engineering	1.63	0.98	
53	404191	Machine Learning	1.93	2.41	0.96
54	404192	Renewable Energy Systems	0.98		1.96
55	404195	Project Stage II	2.99	2.99	2.99
56		Audit Course-Environment Issues & Discusser Management			2
		Average Direct Attainment through co and extra curricular courses	**1.31**	**1.19**	**1.47**
		Average Indirect attainment	**2.32**	**2.28**	**2.45**
		Total Attainment	**1.51**	**1.41**	**1.67**

Table 3.3.1.6: PO Attainment for AY: 2018-19 to AY: 2021-22 (Cycle – 2)

Sr.No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		AY:18-19 FE												
1	101005	Basic Civil and Environmental Engineering	1.34	1.33	0.56	0.68	0.68	0.66	0.67					
2	101011	Engineering Mechanics	0.65	0.65	0.33									
3	102006	Engineering Graphics I	0.50	0.33								0.17		
4	102013	Basic Mechanical Engineering	0.66	0.72										
5	102014	Engineering Graphics II	1.96	0.98			0.98							
6	103004	Basic Electrical Engineering	1.13	0.38	0.38									
7	104012	Basic Electronics Engineering	0.85	0.41	0.45		0.36							
8	107001	Engineering Mathematics I	0.50	0.33	0.17									
9	107002	Engineering Physics	1.40	0.99	0.77		0.72							
10	107008	Engineering Mathematics II	0.50	0.33	0.17									
11	107009	Engineering Chemistry	0.99	0.31	0.33									
12	110003	Fundamentals of Programming Languages I	0.50	0.33	0.17		0.33							
13	110010	Fundamentals of Programming Languages II	1.30	0.87	0.43		0.87							
14	111007	Workshop Practice	2.00	1.00	1.00			1.00						
		AY:19-20 SE												
15	204181	Signals & Systems	1.65	1.65	0.55	0.55	0.55		1.1	0.55		0.55		
16	204182	Electronic Devices & Circuits	1.03	0.87	0.95	0.79	0.83							
17	204183	Electrical Circuits and Machines	1.33	1.33	0.44	0.44				0.44		0.43		
18	204184	Data Structures and Algorithms	1.52	2.05	1.29	1.25	2.58			0.86		0.86		
19	204185	Digital Electronics	2.12	2.12	1.64	1.64	1.64			0.71		0.71		
20	204186	Electronic Measuring Instruments & Tools	1.16	1.65	0.99	0.99	0.99	0.99	0.99	1.98	2.97	2.64		0.99
21	204192	Audit Course 1 (Japanese Language Module 1)										2.5		2
22	207005	Engineering Mathematics III	2.79	1.86	0.93		0.93							
23	204187	Integrated Circuits	2.8	2.8	0.93	0.93				0.93		0.93		
24	204188	Control Systems	1.49	2	1.74	2.99	1.99	1.99						
25	204189	Analog Communication	2.19	1.11		0.98	1.88	0.92			0.94			
26	204190	Object Oriented Programming	1.81	2.31	1.48	1.48	2.97			0.99		0.99		
27	204191	Employability Skill Development	1.22	1.47	0.97	0.97	0.97	0.96	0.97	1.95	2.92	2.44		0.97

28	204193	Audit Course 2 (Japanese Language Module 2)										2.5		2
		AY:20-21 TE												
29	304181	Digital Communication	2.79	2.79	2.79	0.93		0.93		0.93		0.93		
30	304182	Digital Signal Processing	2.89	2.89	2.41	2.09	0.96			0.96		0.96		
31	304183	Electromagnetics	2.92	1.95	0.97	0.97	0.97					0.97		
32	304184	Microcontrollers	1.87	2.81	2.5		1.88			0.94		0.94		
33	304185	Mechatronics	1.66	1.66	1.99	1.5	1.99	1	1					
34	304193	Electronics System Design	2.92	2.92	1.95	0.97	1.95			0.97	0.97	0.97		
35		Audit Course Cyber and Information Security	2	2				2		3		1		1
36	304186	Power Electronics	2.13	2.61		2.14	1			0.98		0.98		
37	304187	Information Theory, Coding and Communication Networks	2.93	2.93	2.12	1.63	1.96			0.98		0.98		
38	304188	Business Management	0.93	1.87	1.87		1.87	1.87	1.63	1.87	1.68	1.12	1.87	0.93
39	304189	Advanced Processors	1.84	2.76	2.3		1.84			0.92		0.92		
40	304190	System Programming and Operating Systems	1.81	2.31	1.48	1.48	2.97			0.99		0.99		
41	304196	Employability Skills and Mini Project	2.89	2.89	2.89	2.89	2.89	2.89	1.93	1.93	2.89	2.89	2.89	1.93
42		Audit Course Embedded System using MSP430	2	2				2				2		2
		AY:2021-22 BE												
43	404181	VLSI Design& Technology	1.66	1.97	2.59	2.12	2.68	0.91	0.91			1.79		
44	404182	Computer Networks & Security	2.9	2.9	1.61	1.61	1.61			0.97		0.97		
45	404183	Radiation & Microwave Techniques	2.73	2.73	0.91	0.91				0.91		0.91		
46	404184	Internet of Things	2.02	2.36	2.28	2.2	2.25	1		0.9		1.07		1
47	404185	Artificial Intelligence	1.94	1.94	1.94	2.92	2.92			0.97				1.94
48	404185	Electronics Product Design	0.91	0.9	1.15	0.93	0.93	0.9	0.93	0.93	1.18	0.93	1.13	1.51
49	404184	Embedded system and RTOS	0.94	1.41	0.94		0.94			0.47		0.47		
50	404188	Project Stage I	2.5	3	2.5	3	2.5	2.5	3	2.5	2.5	2.5	3	3
51		Audit course Human Behaviour						2		2	2	2		2
52	404189	Mobile Communication	2.42	1.18	0.87	1.55	0.78					0.78		
53	404190	Broadband Communication Systems	2.43	2.43	2.43	0.87		0.81		0.81		0.81		
54	404191	Machine Learning	1.34	1.74	2.02	2.38	2.07			0.79	0.65	0.79		1.3
55	404192	Renewable Energy Systems	1.08	0.91	0.49	1.01		0.98	1.07					
56	404195	Project Stage II	2.97	2.97	2.97	2.96	2.64	1.99	1.99	2.49	2.97	2.99	2.5	3
57		Audit Course Environmental issue and Disaster Management						2	2	2				2
		Average Direct attainment through courses and activities	**1.74**	**1.70**	**1.38**	**1.55**	**1.59**	**1.46**	**1.39**	**1.24**	**1.96**	**1.32**	**2.07**	**1.68**
		Average Indirect attainment	**2.37**	**2.43**	**2.44**	**2.44**	**2.47**	**2.29**	**2.46**	**2.43**	**2.38**	**2.27**	**2.35**	**2.42**
		Total Attainment	**1.86**	**1.85**	**1.59**	**1.73**	**1.77**	**1.62**	**1.60**	**1.48**	**2.04**	**1.51**	**2.12**	**1.83**

Table 3.3.1.7: PSO Attainment for AY: 2018-19 to AY: 2021-22 (Cycle – 2)

Sr.No.	Course Code	Course Name	PSO1	PSO2	PSO3
		AY:18-19 FE			
1	101005	Basic Civil and Environmental Engineering			
2	101011	Engineering Mechanics			
3	102006	Engineering Graphics I			
4	102013	Basic Mechanical Engineering			
5	102014	Engineering Graphics II			
6	103004	Basic Electrical Engineering	0.56	0.38	
7	104012	Basic Electronics Engineering	0.82	0.76	0.42
8	107001	Engineering Mathematics I	0.17		
9	107002	Engineering Physics	0.70	0.70	
10	107008	Engineering Mathematics II	0.17		
11	107009	Engineering Chemistry			
12	110003	Fundamentals of Programming Languages I			
13	110010	Fundamentals of Programming Languages II			
14	111007	Workshop Practice			
		AY:19-20 SE			
15	204181	Signals & Systems	0.55	0.55	
16	204182	Electronic Devices & Circuits	0.87	0.76	
17	204183	Electrical Circuits and Machines	0.89	0.44	
18	204184	Data Structures and Algorithms	1.72	0.79	0.86
19	204185	Digital Electronics	1.88	1.88	0.71
20	204186	Electronic Measuring Instruments & Tools	0.99	0.99	2.97
21	204192	Audit Course 1 (Japanese Language Module 1)			
22	207005	Engineering Mathematics III	0.92		
23	204187	Integrated Circuits	2.8	1.87	
24	204188	Control Systems	1.66	2	2.74
25	204189	Analog Communication	0.94		1.13
26	204190	Object Oriented Programming	1.98	0.98	
27	204191	Employability Skill Development	0.97	0.97	2.92
28	204193	Audit Course 2 (Japanese Language Module 2)			
		AY:20-21 TE			
29	304181	Digital Communication	2.79		
30	304182	Digital Signal Processing	0.96	0.96	
31	304183	Electromagnetics	2.92	0.97	
32	304184	Microcontrollers	0.94	2.5	
33	304185	Mechatronics	1.33	2.5	2.33
34	304193	Electronics System Design	2.92	2.92	1.95
35		Audit Course Cyber and Information Security		1	
36	304186	Power Electronics	1.65		
37	304187	Information Theory, Coding and Communication Networks	2.28		0.98
38	304188	Business Management			0.93
39	304189	Advanced Processors	0.92	2.3	

40	304190	System Programming and Operating Systems	1.98	0.98	
41	304196	Employability Skills and Mini Project	2.89	2.89	2.89
42		Audit Course Embedded System using MSP430	1	2	
		AY:2021-22 BE			
43	404181	VLSI Design& Technology	2.43	0.91	0.91
44	404182	Computer Networks & Security	0.97	0.97	
45	404183	Radiation & Microwave Techniques	1.82	0.91	
46	404184	Internet of Things	1.83	2.28	0.96
47	404185	Artificial Intelligence	2.92	1.62	
48	404185	Electronics Product Design	0.91	0.91	
49	404184	Embedded system and RTOS	0.47	0.94	
50	404188	Project Stage I	3	2.67	2.17
51		Audit course Human Behaviour			2
52	404189	Mobile Communication		0.81	0.81
53	404190	Broadband Communication Systems	2.43		
54	404191	Machine Learning		1.3	
55	404192	Renewable Energy Systems	0.51		0.98
56	404195	Project Stage II	2.97	2.97	2.99
57		Audit Course Environmental issue and Disaster Management			2
		Average Direct attainment through courses and activities	**1.52**	**1.41**	**1.62**
		Average Indirect attainment	**2.29**	**2.27**	**2.42**
		Total Attainment	**1.68**	**1.58**	**1.78**

Table 3.3.1.8: PO Attainment for AY: 2019-20 to AY: 2022-23 (Cycle – 3)

Sr. No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		AY:19-20 FE												
1	107001	Engineering Mathematics - I	2.31	1.54	0.77		0.77							
2	107002	Engineering Physics	1.23	0.66			0.66		0.57			0.64		
3	102003	SME	0.93	0.52					0.58			0.47		
4	103004	Basic Electrical Engineering	0.84	0.84	0.53		0.52							
5	110005	PPS	0.95	1.69	1.28		0.79			0.79	0.85	0.79		0.79
6	111006	Workshop Practices	0.97	0.97	0.97	0.97		0.97						
7	107008	Engineering Mathamatics II	1.69	1.13	0.56		0.56							
8	107009	Engineering Chemistry	1.37	1.20	0.59				0.57		0.59	0.59		
9	104010	Basic Electronics Engineering	1.09	0.54	0.56		0.51							
10	101011	Engineering Mechanics	1.16	1.16			0.56					0.57		
11	102012	Engineering Graphics	1.43	0.70	0.78		0.69					0.72		
12	110013	PBL	2.33	1.33	1.00		2.50	1.00	1.00		2.00	1.00	1.00	
		AY:20-21 SE												
13	207005	Engineering Mathematics III	1.87	1.24	0.62		0.45							
14	204181	Electronic Circuits	2.94	2.94	1.96	0.98	1.96			0.98	0.98	0.98		
15	204182	Digital Circuit	2.93	2.93	2.61	2.12	1.96			0.98		0.98		
16	204183	Electrical Circuits	2.92	2.92	0.97	0.97	1.46			0.97		0.97		

17	204184	Data structures	1.82	2.31	1.49	1.49	2.97			0.99		0.99		
18	204189	Electronic Skill Development	2.91	2.91	2.43	0.97	1.95		1.93	0.97		0.97		
19	204190	Audit Course- German Language 1										2.5		2
20	204191	Signals & Systems	1.81	2.17	0.72	0.72	0.72			0.72		0.72		
21	204192	Control Systems	1.79	2.93	2.77	2.77	2.77							
22	204193	Principles of Communication Systems	2.34	2.81	0.94	0.94	0.94			0.94		0.94		
23	204194	Object Oriented Programming	1.82	2.31	1.49	1.49	2.97			0.99		0.99		
24	204198	Data Analytics Lab	2.02	2.33	1.86	2.79	2.79			0.93		0.93		0.94
25	204199	Employability Skill Development	1.16	1.35	0.97	0.97	0.97	0.97	0.97	1.93	2.9	2.51		1.16
26	204200	Project Based Learning	2	1.2	0.98		2.3	0.96	0.96		1.98	0.95	0.95	
27	204201	Audit Course (Enhancing soft skills and Personality)						1		1	1	2		2
		AY:21-22 TE												
28	304181	Digital Communication	3	3	3	2	2	1		1		1		
29	304182	Electromagnetic Field Theory	2.92	1.95	1.95	0.97	0.97			0.97		0.97		
30	304183	Database Management	2	2.5	2.67	2.33	3			2		2.17	1.75	3
31	304184	Microcontroller	1.84	2.77	2.31		1.87			0.92		0.92		
32	304185	Fundamentals of JAVA Programming	2.86	2.86	1.91	0.95	1.91			0.95	0.95	0.95		
33	304185	Computer Networks	2.75	2.59	1.78	2.26	1.94	1.94		0.97				
34	304190	Skill Development	2.53	1.55	2.9		0.97			0.97	0.97	0.97		0.97
35	304191A	Audit Course (Entreprenuersip and IP strategy)						2		2	2	2		2
36	304192	Cellular Networks	0.95	0.79	0.79		0.47			0.47		0.47		
37	304193	Project Management	0.83	0.5	0.37	0.37	0.4	0.67	0.36	0.61	0.87	0.68	0.53	0.48
38	304194	Power Devices & Circuits	2.5	1.6	1.3	1.2	1.56	1.98	1.3	2	2.98	2.3	1.97	1.5
39	304195	Advanced JAVA Programming	1.44	2.16	2.16	0.72	2.16	0.72			2.16	0.72		0.72
40	304195	Network Security	2.01	2.02	1.6	1.01	1.48	1.85		0.74				
41	304199	Internship	2	2	2	1	2	2	2	2.75	2	2	2	2.2
42	304200	MiniProject	2.92	2.92	2.92	2.92	2.92	2.92	1.95	1.95	2.92	2.92	2.92	1.95
43	304191 B	Audit Course(Energy Resources, Environment and Economics)						2	2	1		1		2
		AY:2022-23 BE												
44	404181	Radiation & Microwave Theory	1.31	1.31	1.31	0.44	0.44	0.44		0.44		0.44		
45	404182	VLSI Design and Technology	2.3	2.2	1.1	1.96	2.2			0.92		0.92		
46	404183	Cloud Computing	2.02	2.02	2.02	2.02	2.02			0.67		0.67		
47	404184	Modernized IoT	2.8	2.8	2.8	2.8	1.86			0.93		0.93		1.93
48	404184	JAVA Script	1.5	2.05	1.36	1.23	2.59			0.86		0.86		
49	404185	Deep Learning	1.77	1.89	1.73	2.6	2.6	0.76		0.73		0.76		0.78
50	404185	Electronic Product Development	0.54	0.74	0.98	0.84	0.93	0.36	0.22			0.47	0.24	0.48
51	404188	Project Stage - I	2.5	3	2	3	3	2.5	3	2.5	2.67	3	2.33	3
52	404189	Mandatory Audit Course 7(Human Resource Development)						2		1	2	2		2
53	404190	Fiber Optic Communication	2.19	2.19	2.19	1.46	1.49	0.73		0.73		0.73		
54	404191	Mobile Computing	1.61	0.8	1.61	0.8	0.8							0.9
55	404192	Digital Marketing	0.56	1.09	0.73	0.64	0.54	0.3		0.47	0.3	1.55		0.65
56	404193	Innovation & Entrepreneurship	1	0.96	1.1	0.96	0.94			2.3	0.94	1.3	1.3	1.4
57	404194	Digital Business Management					2.98	2.96		2.88	2.96	2.98	2.80	2.77

58	404197	Project Stage - II	2	2.5	2.5	2	2.33	2	2	2.5	3	3	2.5	2
		Direct Attainment through Course and Student Activities	**1.87**	**1.83**	**1.55**	**1.49**	**1.62**	**1.44**	**1.30**	**1.25**	**1.77**	**1.28**	**1.73**	**1.61**
		Indirect attainment through survey	**2.32**	**2.43**	**2.41**	**2.40**	**2.55**	**2.44**	**2.35**	**2.49**	**2.53**	**2.26**	**2.42**	**2.34**
		Total attainment	**1.96**	**1.95**	**1.72**	**1.67**	**1.80**	**1.64**	**1.51**	**1.50**	**1.92**	**1.47**	**1.87**	**1.76**

Table 3.3.1.9: PSO Attainment for AY: 2019-20 to AY: 2022-23 (Cycle – 3)

Sr. No.	Course Code	Course Name	PSO1	PSO2	PSO3
		AY:19-20 FE			
1	107001	Enggineering Mathematics - I	0.77		
2	107002	Engineering Physics	0.62	0.62	
3	102003	SME			
4	103004	Basic Electrical Engineeirng	0.87	0.58	
5	110005	PPS	1.32	1.05	
6	111006	Workshop Practices			
7	107008	Engineering Mathamatics II	0.56		
8	107009	Engineering Chemistry			
9	104010	Basic Electronics Engineeirng	1.09	1.00	0.54
10	101011	Engineering Mechanics			
11	102012	Engineering Graphics			
12	110013	PBL	1.67	1.33	1.50
		AY:20-21 SE			
13	207005	Engineering Mathematics III	0.71		
14	204181	Electronic Circuits	2.94	2.94	1.96
15	204182	Digital Circuit	2.61	2.61	0.98
16	204183	Electrical Circuits	2.92	0.97	
17	204184	Data structures	1.98	0.99	0.99
18	204189	Electronic Skill Development	2.91	1.46	
19	204190	Audit Course- German Language 1			
20	204191	Signals & Systems	1.45	0.72	
21	204192	Control Systems	1.76	1.79	
22	204193	Principles of Communication Systems	1.88	0.94	
23	204194	Object Oriented Programming	1.98	0.99	
24	204198	Data Analytics Lab		2.02	
25	204199	Employability Skill Development	0.97	0.97	2.9
26	204200	Project Based Learning	1.5	1.2	1.2
27	204201	Audit Course (Enhancing soft skills and Personality)			2
		AY:21-22 TE			
28	304181	Digital Communication	3		
29	304182	Electromagnetic Field Theory	2.92		
30	304183	Database Management	1	1	1
31	304184	Microcontroller	0.92	2.31	
32	304185	Fundamentals of JAVA Programming	2.86	2.86	1.91
33	304185	Computer Networks	1.94	0.97	

34	304190	Skill Development	2.92	1.94	0.97
35	304191A	Audit Course (Entreprenuersip and IP strategy)			2
36	304192	Cellular Networks		0.95	
37	304193	Project Management	0.61	0.4	0.87
38	304194	Power Devices & Circuits	1.98	1.6	2.78
39	304195	Advanced JAVA Programming		0.72	0.72
40	304195	Network Security	1.35	1.11	
41	304199	Internship	2	2	2
42	304200	MiniProject	2.92	2.92	2.92
43	304191 B	Audit Course(Energy Resources, Environment and Economics)			1
		AY:2022-23 BE			
44	404181	Radiation & Microwave Theory	1.31	0.87	
45	404182	VLSI Design and Technology	2.32	2.11	
46	404183	Cloud Computing	0.67	0.67	
47	404184	Modernized IoT	2.8	2.8	0.96
48	404184	JAVA Script	1.72	0.61	0.86
49	404185	Deep Learning		1.31	
50	404185	Electronic Product Development	0.97	0.54	0.36
51	404188	Project Stage - I	3	2.5	2.17
52	404189	Mandatory Audit Course 7(Human Resource Development)			1
53	404190	Fiber Optic Communication	2.19		0.73
54	404191	Mobile Computing	0.8		
55	404192	Digital Marketing	0.49	0.3	
56	404193	Innovation & Entrepreneurship		0.92	0.91
57	404194	Digital Business Management	0.98		
58	404197	Project Stage - II	3	3	3
		Direct Attainment through Course and Student Activities	**1.74**	**1.43**	**1.50**
		Indirect attainment through survey	**2.47**	**2.45**	**2.48**
		Total attainment	**1.89**	**1.63**	**1.69**

AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE, New Delhi, Recognized by Government 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 | NBA - 6 UG Programmes

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION IV

Student Performance

CRITERION IV	Student Performance	150

Item(Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (22-23)	CAY (22-23)	(21-22) CAY m1	(20-21) CAY m2	(19-20) CAYm 3	(18-19) CAYm 4	(17-18) CAYm 5	(16-17) CAY m6
Sanctioned intake of the program (*N*)	60	60	60	60	60	60	60	0
Total number of students admitted in first year *minus* number of students migrated to other programs/institutions plus no. of students migrated to this program (*N*1)	70	70	68	69	62	52	54	0
Number of students admitted in 2nd year in the same batch via lateral entry (*N*2)	12	9	9	**9**	**18**	**20**	**29**	**0**
Separate division students, if applicable (*N3*)	0	0	0	0	0	0	0	0
Total number of students admitted in the Program (*N*1 + *N*2 + N3)	82	79	77	78	80	72	83	0

Table 4.1

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
2022-23 (CAY)	70	32			
2021-22 (CAYm1)	77	36	33		
2020-21 (CAYm2)	78	37	43	43	
2019-20 (CAYm3)	80	29	46	42	42
2018-19 (LYG)	72	20	31	31	31
2017-18 (LYGm1)	83	28	38	31	31
2016-17 (LYGm2)	0	0	0	0	0

Table 4.2

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated (Students with backlog in stipulated period of study)			
		I Year	II Year	III Year	IV Year
2022-23 (CAY)	70	55			
2021-22 (CAYm1)	77	68	67		
2020-21 (CAYm2)	78	69	77	76	
2019-20 (CAYm3)	80	55	70	68	67
2018-19 (LYG)	72	40	59	59	59
2017-18 (LYGm1)	83	48	69	64	64
2016-17 (LYGm2)	0	0	0	0	0

Table 4.3

4.1	Enrollment Ratio	20

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23 (CAY)	60	70	116.67
2021-22 (CAYm1)	60	68	113.33
2020-21 (CAYm2)	60	69	115.00

Average [(ER1 + ER2 + ER3) / 3]: 115.00

4.2	Success Rate in the stipulated period of the program (40)	40

4.2.1 Success rate without backlogs in any semester/year of study (25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, If applicable)

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any year of study = 25 × Average SI

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)
X Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	80	72	83
Y Number of students who have graduated without backlogs in the stipulated period	42	31	31
Success Index (SI) [SI = Y / X]	0.52	0.43	0.37

Average SI [(SI1 + SI2 + SI3) / 3] : 0.44

Assessment [25 * Average SI]: 11.00

4.2.2 Success rate with backlog in stipulated period (15) (With backlog)

SI = (Number of students who graduated from the program in the stipulated period of course duration) / (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separated division, if applicable)

Average SI = mean of Success Index(SI) for past three batches

Success rate = 15 × AverageSI

Success rate = 15 × AverageSI

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)
X Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral	80	72	83

entry and separate division, if applicable			
Y Number of students who have graduated with backlog in the stipulated period	67	59	64
Success Index (SI) [SI = Y / X]	0.83	0.82	0.77
Average Success Index	(0.83+0.82+0.77/2) =0.80		

Average SI[(SI1 + SI2 + SI3) / 3]: 0.80

Assessment [15 * Average SI] : 12.1

Note : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3	4.3. Academic Performance in Third Year (15)	15

Academic Performance = 1.5 * Average API(Academic Performance Index)

API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year / 10)) x (number of successful students / number of students appeared in the examination)

Successful students are those who are permitted to proceed to the final year.

Academic Performance	(CAYm2) 2020-21	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or Mean Percentage of all successful students (X)	7.91	9.00	9.87	7.90
Total no. of successful students (Y)	76	68.00	59.00	64.00
Total no. of students appeared in the examination (Z)	77	70.00	59.00	69.00
API = X* (Y/Z)	API1=7.80	AP12= 8.74	API3=9.87	API4=7.32
Average API = (AP1 + AP2 + AP3)/3		**8.65**		

Table B.4.3

Academic Performance = 1.5 * Average API (Academic Performance Index)
= 1.5 * 8.65 = 12.97 (12.97 /15 marks)

4.4	Academic Performance in Second Year(15)	15

Academic Performance in Second Year(15)

Academic Performance Level = 1.5 * Average API (Academic Performance Index)

API = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination).

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	(CAYm1)2021-22	CAYm 2 (2020-21)	CAYm 3 (2019-20)	LYG (2018-19)
Mean of CGPA or Mean Percentage of all successful students (X)	7.39	8.34	8.88	8.88
Total no. of successful students (Y)	67	77	70	59
Total no. of students appeared in the examination (Z)	77	78	73	60
API = X* (Y/Z)	API=6.43	AP1=8.23	AP2=8.52	AP3=8.73
Average API = (AP1 + AP2 + AP3)/3		(8.23+8.52+8.73/3) = 8.49		

Table B .4.4

Average API = (AP1 + AP2 + AP3)/3 = 8.49

Academic Performance Level = 1.5 * Average API (Academic Performance Index)
= 1.5 *8.49 = 12.74(12.74/15 marks)

4.5	Placement, Higher Studies and Entrepreneurship (40M)	40

Table 4.5.1Placement, higher studies and entrepreneurship for past three years

Item	LYG (2018-19 to 2021-22)	LYGm-1 (2017-18 to 2020-21)	CAYm2 (2016-17)
Total No. of Final Year Students **(N)**	**62**	**64**	**0**
No. of students placed in companies **or** Government Sector **(x)**	**53**	**58**	**0**
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) **(y)**	**03**	**02**	**0**
No. of students turned entrepreneur in engineering/technology **(z)**	**00**	**00**	**0**
x + y + z =	**56**	**60**	**0**
Placement Index : (x + y + z)/N	**0.90**	**0.94**	**0**
Average placement= (P1 + P2 + P3)/3	**0.92**		

Assessment = 40 × Average Placement=**40×0.92 = 36.8**

Provide the placement data in the below mentioned format with the name of the program and the assessment year:

Table .4.5.2

Programs Name and Assessment Year **Electronics & Telecommunication – CAYm1:2021-22**				
S. No.	**Name of the student placed**	**nrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	ABHISHEK SHIVDUTT KHEDKAR	71904931J	Tata Consultancy Services (TCS)	TCSL/CT2021370517/Pune
2	ADHAV KAUSTUBH DATTATRAY	71811551B	Cognizant	Candidate ID: 19938424
3	AJUR ANIKET ASHOK	71904942D	Hexaware Technologies Ltd.	Email
4	AKSHAT GUPTA	71904946G	Cognizant	Letter of Authrization (Date:

				11.05.2022)
5	AWALE ANMEY SANJAY	71904972F	AVENUE	Date: 05.07.2022
6	BANDE ABHISHEK NANDKUMAR	72000977E	N V Industrial Services LLP	Job Offer Letter Dated: 15.05.2023
7	BANDGE VISHAL RAMRAO	71904986F	Hexaware Technologies Ltd.	Letter of Intent (Date:17.03.2022)
8	BHINGARDE DAIDEEP DAYANAND	71904998K	Zensar	Ref. No. 0081559_3/1639366
9	BORLE PRATHMESH GOPAL	71905020M	Nagarro Software Pvt. Ltd	Date: 18.07.2022
10	BURANGE MANJUSHA VITTHAL	72000978C	Tata Consultancy Services (TCS)	TCSL/CT20203545807/Pune
11	CHORE DHANASHREE RAJENDRA	71905066K	Hexaware Technologies Ltd.	Letter of Intent (Date: 28.01.202)
12	DAHALE TANMAY VINAY	71905044j	Cognizant	Date:18.01.2022 Emp. ID:2152962
13	DAREKAR HARSHAVARDHAN KAMLAKAR	72000979M	iPRIMED Education Solutions Pvt. Ltd.	Date: 11.03.2022
14	DHERE DIGVIJAY ADINATH	71905070H	MPC Cloud Consulting Pvt. Ltd. Hyderbad	Ref.:MPC/India/O0215 Dated:19.05.2023
15	GAJARE TANMAYEE MAHESH	71905094E	Wipro Limited	Email: 21.09.202
16	GUJARKAR VINIT ASHOKRAO	71905531J	Cognizant	Candidate ID: 19938319
17	HASURKAR RASIKA BHARAT	71905124L	Cognizant	Superset ID: 2216876
18	HIMANSHU ABHIRAJ	72000982M	Technosoft Engineering	Date:27.10.2022
19	ISHAN GUPTA	71905138L	SIEMENS	298944/8045976
20	JADHAV ANIKET RAMESH	71905139J	DATACAPTEN Technologies Pvt. Ltd	Date: 10.10.2022
21	JAGTAP KRUTIKA SURENDRA	71905221B	Forbes Marshal	HR:BK:SN:SC:Offer:12
22	JANGAM SAURABH SANDIP	72012549K	Capgemini	Offer Letter
23	JOSHI ANUJA DHANANJAY	71905160G	Zensar	Ref:008155_3/1639340
24	KADU AISHWARYA NITIN	72000983K	Tech Mahindra	Associate ID:958892
25	KANADE NEHA SUNIL	72012550C	Forbs Marshal	Offer Letter
26	KHAIR MIHEEKA VIJAYJEET	71905194M	RIA Advisory LLP	Date: 10.05.2022
27	KHANDALE NEHA DILIP	71811932M	Sagitech solutions Pvt. Ltd.	Offer Letter
28	KHANDARE ROHIT	72000984H	Voksedigital	EMP Code: 1035

	RAJENDRA		Consultancy Services LLP	
29	KHOBRAGADE KHUSHBOO CHAKRADHAR	71905205L	PENTAGON SPACE	Offer Letter
30	KOTHARI RUTUJA PANKAJ	71905217D	Wipro Limited	Date: 23.01.2022
31	KULKARNI POOJA DILIP	71905371E	BRISTLECONE India Limited	Appointment Letter: 11.04.2022
32	KUMBHAR APURVA MALHARI	71908050K	iPRIMED Education Solutions Pvt. Ltd.	Date: 11.03.2022
33	LONDHE MONALI SANJAY	71811985B	Wipro Limited	Date: 28.01.2022
34	MANE ATHARVA TULSHIDAS	72000985F	Nihilent Limited	Date: 05.04.2022
35	MOHITE VAISHNAVI AANANDRAO	72000986D	Wipro Limited	Date: 21.01.2022
36	NAGDIVE MEGHANA KIRAN	71905286G	KPIT	Date: 12.07.2022 Emp. ID:151446
37	PATIL AISHWARYA SANJAY	72000987B	HCL Technologies Ltd.	Offer Release Date:27.09.2022
38	PATIL SATYAJEET SHANKARRAO	71905344H	Larsen and Toubro Infotech Ltd.	Ref.:LTI/EN9/Campus/2022
39	PATNI MAMTA MANOJ	71905350B	Ungrammary	Offer Letter
40	PAWAR KEDAR SURESH	71905354E	Johnson Controls (India) Private Limited	Date: 23 August 2022
41	PAWAR TANMAY SHRIKANT	71905506H	Volkswagen Group Technologies Solutions India	Date: 15.07.2022
42	POHANKAR VINAY ASHOK	71905368E	Cognizant	Candidate ID: 19938266
43	PREETI KUMARI	71905380D	Nihilent Limited	Whatsup Message
44	RAJGURU REKHA VITTHAL	72000988L	Allianz Technologiey SE	Date: 22.11.2022
45	RAUT OMKAR VITTHAL	72000989J	Renault Nissan Technologies Business Center India	HR/16890/Apr2022
46	RINKI	71905403G	Tata Consultancy Services (TCS)	TCSL/CT20203461829/Pune
47	SAKSHI SINGH	71812197L	Harman Connected Services Corporation India Ltd.	Date: 15.05.2022
48	SUBHEDAR SANA SADIQ	71905490H	Rudder Analytics	Date:18.01.2022

			Private Limited	
49	SUYASH RAJPURE	71905499M	Jio Digital Life	Date: 05.07.2022
50	TADGE MEGHA SANTOSH	71905503C	Tata Consultancy Services (TCS)	TCSL/CT20203555126/Pune
51	UMBARKAR PAARTH MANISH	71905517C	Tata Consultancy Services (TCS)	TCSL/CT20203546027/Pune
52	VARADE KUNAL KIRAN	71905523H	Hexaware Technologies Ltd.	Letter of Intent (Date: 28.01.202)
53	YEWALE JALINDAR KAKASAHEB	71905555F	AccioJob (Web Development)	Offer Letter

Programs Name and Assessment Year

Electronics & Telecommunication – CAYm2: 2020-21

S. No.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date
1	ABHISHEK ANAND LAD	71811546F	Johnson Control	Date: 1 September, 2021
2	AKSHATA KISHOR LOYA	71925858J	Infosys	1002664337
3	BANSODE PRAMILA RAMESH	71925859G	Tata Consultancy Services (TCS)	Associate No. 2192355
4	BASARGE ANKUSH BAJIRAO	71811606C	Accenture	C9674576
5	BHAKRE SAGAR KANIFNATH	71925860L	Cognizant	16737914
6	BHARAMBE YUKTA BHASKAR	71811625K	Tata Consultancy Services (TCS)	TCSL/CT20203389349
7	BHONDAVE PRATHMESH SOMESH	71811638M	Tata Consultancy Services (TCS)	TCSL/CT20203407509
8	BHOSKAR SHWETA KAILAS	71811644F	Infosys	HRD/3T/1002134373/21-22
9	CHATLA PRAGNA RAJNARENDRA	71811673K	Digital India Corporation	3(42)2014-EG-II042 Dated:28.09.2021
10	CHOUDHARI PRANJAL BALASAHEB	71925861J	Tech Mahindra	Offer Letter Date:03.11.2021
11	DALVI ANIKET NAGOJIRAO	71811703E	Tata Consultancy Services (TCS)	TCSL/CT20203476898
12	DARWATKAR RUSHIKESH VIJAY	71811709D	Accenture	C9674583
13	DESHMUKH KOMAL KALYANRAO	71811717E	DSC Technology	HRD/3T/1002478816/21-22
14	DESHMUKH SHIVAM RAMDAS	71811721C	Infosys	HRD/3T 1002132535/21-22
15	GADDI SHWETA HANAMANT	71925862G	Infosys	HRD/3T/1002136828/21-22
16	GARDADE SONALI SANJAY	71811787F	FUJITSU	HR/OL/32244076
17	GORTE SHREYA ASHOK	71811810D	Accenture	Employee ID:13251031

18	JAIN ROHIT DEEPAK	71811863E	Accenture	Ref. ID:13244803
19	JHA PRATEEK ANIL	71811872D	Accenture	C9788692
20	JOGDAND LAHU NAMDEV	71925863E	Bosch	E.N.C4872
21	KADAM SHREYAS AMARDEEP	71811886D	Infosys	Candidate ID:1002137089
22	KAMBLE AISHWARYA PARMATMA	71925864C	CSMIT	Offer Pending (20)
23	KAMBLE VAISHNAVI SUHAS	71812320E	Fujitsu Consulting India Private Limited	Date: 20.06.2023 Emp. Code: 37361
24	KASAT VEDANT SANDEEP	71811917H	Tata Consultancy Services (TCS)	TCSL/CT20203311944/Bangalore
25	KASBE SATYAM SURYAKANT	71925865M	Magna Steyr India	Offet Letter Date: 16.06.2023
26	KATKE SWAPNALI DEVANAND	71925866K	WIPRO	APPOINTMENT LETTER - 22679637
27	KHATAVKAR PRAJAKTA SHIRISH	71925867H	Cognizant	Candidate ID:17787226
28	KILLEDAR NIKITA SURESH	71925868F	Accion Labs India Private Limited	AL21OL - 2125
29	KOLI KATTEPPA BHAGANNA	71925869D	Infosys	HRD/3T/1002473196/21-22
30	KOMAL RAJENDRA JADHAV	71811950K	Infosys	HRD/3T/1002137953/21-22
31	LALWADIA PRANAV VIJAY	71811979H	L&T Infotech Ltd.	LTI//HR/EN1/T0030670
32	MAHAJAN CHAITALI PRAMOD	71925870H	Systeck Solutions, Pune	Offer Letter: Date 01.02.2022 , Employee Code: 0671
33	MALU SWAR NARESH	71812001K	BirlaSoft (KPIT) Ltd.	BSL/HR/APPT/2020-00148870 Date:18.08.2021
34	MANE SURYAKANT CHANDRAKANT	71925871F	Magna Steyr India	Offer Letter Dated: 13/12/2021
35	METHA SAMIKSHA SUDHIR	71812013C	Digital India Corporation	Date:28.09.2021
36	NIKAM RISHIKESH ARUN	71812059M	Tata Consultancy Services (TCS)	TCSL/DT20219443819/Lucknow
37	PARDESHI PRATHMESH CHANDRASHEKHAR	71812086J	Tata Consultancy Services (TCS)	TCSL/CT20203286476/Pune
38	PATIL POOJA SUDHIR	71925873B	Tata Consultancy Services (TCS)	TCSL/CT20203538387/Pune
39	PATIL RUTUJA RAJKUMAR	71925874L	Tech Mahindra	1846740/ELTP/2020
40	PAWAR SAAKSHI VINOD	71925877E	Capgemini	4926265/952811
41	PHALLE KASTURI SOMNATH	71925875J	Capgemini	Candidate ID:4808904/909280
42	PUJARI SHUBHAM SHANKAR	71925876G	Promt Personnel Pvt Ltd	6046249
43	RAKESH SAWANT	71812170J	Cognizant	16831968

44	RANE DIKSHA NITIN	71812172E	Accenture	C10475058
45	SAWANT PRIYANKA VITTHAL	71925878C	Capgemini	998696
46	SHARMA ASTHA SANJEEV	71812234J	Johnson Control	Date:01.09.2021
47	SHELAR NIKITA DEEPAK	71925879M	Infosys	HRD/3T/1002478828/21-22
48	SHINDE SAURABH SUDHIR	71925880E	Mphasis	2488492
49	SHIRODE MANSI SANJAY	71925882M	Accenture	Date:21.03.2022
50	SHIV KUMAR DANGE	71812245D	Amdocs Development Center India Pvt. Ltd	Offer ID:250111 Dated:11.10.2021
51	SHIVANI SINGH	71812250L	Accenture	C9683940
52	SUDE GEETA ANGAD	71925883K	Infosys	HRD/3T/1002944267/21-22
53	TAPSE PATIL RAM PRADIPRAO	71925884H	Honeywell Technology Solutions Lab Ltd.	Letter of Appointment Date:30.09.2021
54	TAUSHIF AHMED	71812291H	Hexaware	EMP No.: 63881
55	TIDKE ANUSHKA SANJAY	71812307H	Tata Consultancy Services (TCS)	TCSL/CT20203462523/Pune
56	USTURAGE SHREYA SIDRAMAPPA	71812318C	Tata Consultancy Services (TCS)	TCSL/CT2020343309/Chennai
57	WAGHMARE NEHA KISAN	71812346J	Infosys	HRD/3T/1002481737/21-22
58	YALLA RAJASHRI ANJANAYYA	71925885F	Johnson Control	Date:21.09.2021

4.6	Professional Activities (20M)	20

4.6.1 Professional Societies/ chapters and organizing Engineering events (5M)

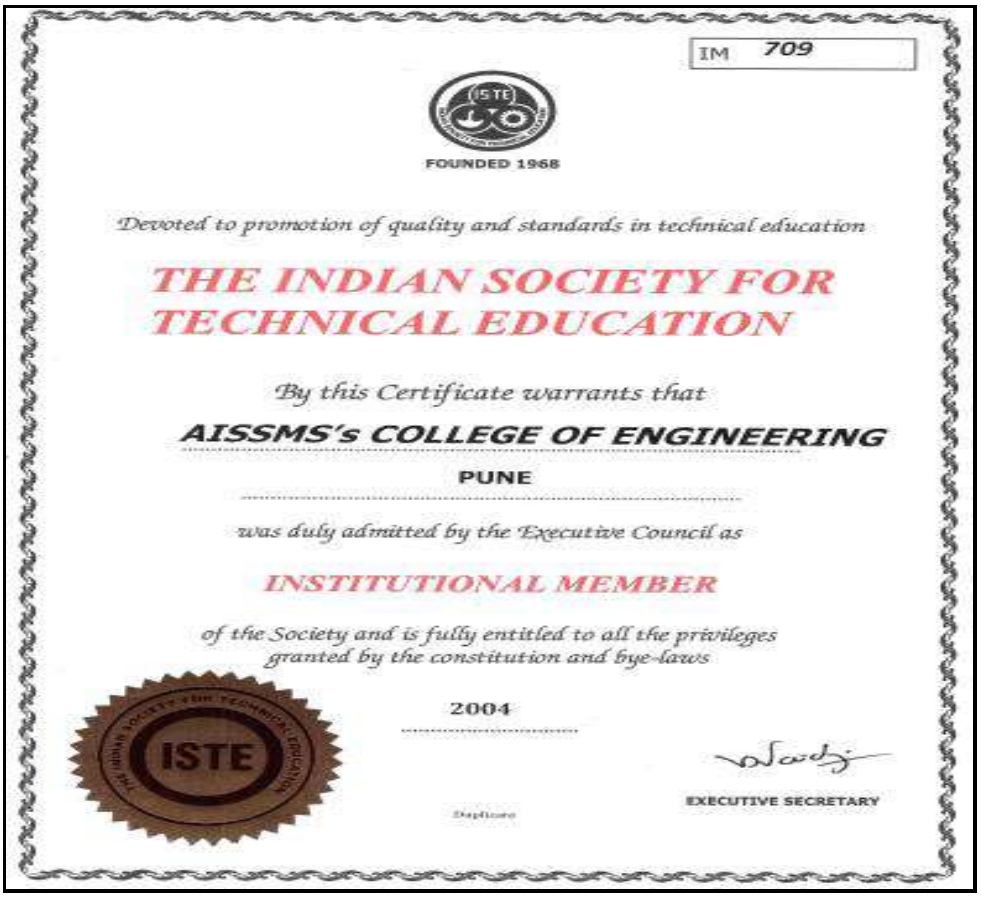
The department conducts various academic activities such as "**Silicon Fusion"** under AISSMS Engineering Today, A Students' National Level Symposium and Technical Exposition, Expert/Guest lectures, Workshops, Training Programs and Seminars through Professional Societies/Chapters named as : The Institution of Engineers (India) Students' Chapter (IE(I)), Indian Society for Technical Education (ISTE), Institute of Electrical and Electronics Engineering (IEEE) and The Institution of Electronics and Telecommunication Engineers (IETE) Students Forum (ISF) for developing technical, interpersonal and leadership skills.

Table 4.6.1.1 a) : List of Professional Societies/Chapters

Sr. No.	Name of the Professional Society	Year of Establishment	Chapter No./ Reference No.
1	IE(I) Students' Chapter	2006-07	411001/AISS/ET
2	ISTE Students' Chapter	2019-20	MH-284
3	IEEE Students' Branch	2020-21	STB-98723
4	IETE Students Forum (ISF)	2021-22	1017
5	TRIZ Students Chapter	2021-22	2021-22/12

Table 4.6.1.1 b): List of Students Clubs

Sr. No.	Name of the Students Club	Year of Establishment
1	Drone and Robotics Club (Aviot-O-Virtue)	2017-18
2	Data Analytics Club (DAEXUS)	2021-22
3	Electronics For You (EFY) Club	2020-21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of the Society and is fully entitled to all the privileges granted by the constitution and bye-laws

2004

ISTE

EXECUTIVE SECRETARY

Figure. 4.6.1.1: ISTE Institutional Membership Certificate


The Institution of Engineers (India)

IM000504-7

000009

This Certificate of Life Institutional Membership is granted to

AISSMS COLLEGE OF ENGINEERING PUNE

on the Fourteenth day of August 2017

Dated 14/08/2017

Secretary and Director General

Figure. 4.6.1.2: IE(I) Institutional Membership Certificate

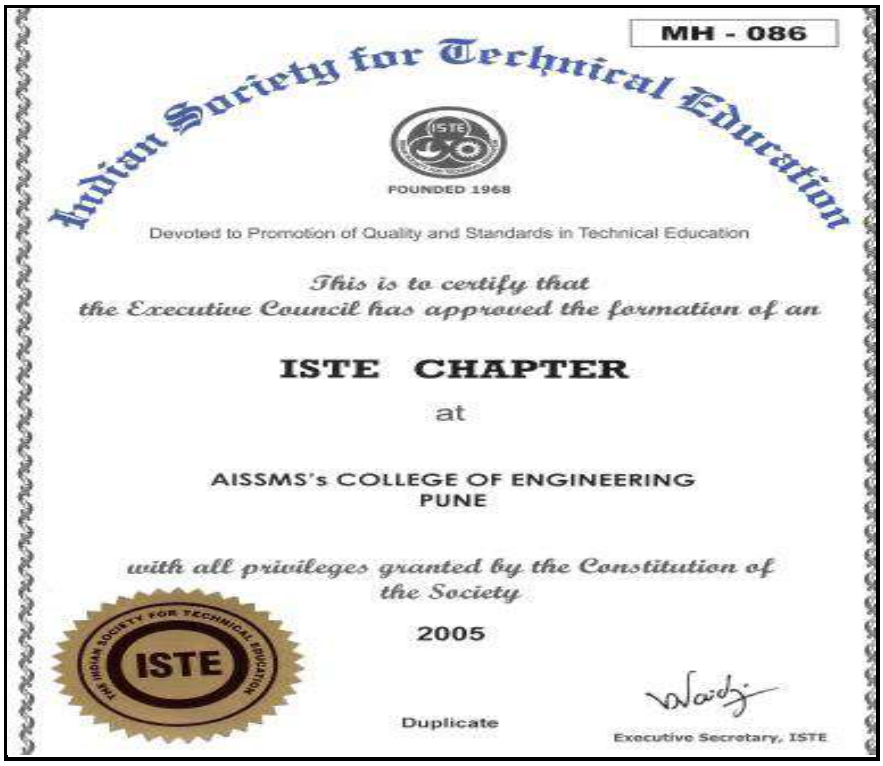


Figure. 4.6.3: ISTE Faculty Chapter Certificate

1. The Institution of Engineers (India) (IE(I)) Students' Chapter (E&TC Engineering)

The IE(I) Students' Chapter (Electronics and Telecommunication Engineering) is Professional Students' Chapter established in 2006 and till date is one of the most active, dynamic and vibrant Students' Chapter at National Level. IE(I) Students' Chapter (E&TC Engineering) has been selected for **National Level Best Engineering College Students' Chapter Award 8 Times** in **Last 9 Years.** The IE(I) Students' Chapter (E&TC Engineering) has been conducting various activities for students' overall development and enhancement of technical and leadership skills. Activities like Technical Seminars, Workshops, Hands on Trainings, Industrial Visits, Competitive and Leadership Programs are organized to develop and instill technological, competitive and leadership progress within students and events like AISSMS Engineering Today: A National level Students' Technical Symposium and Exposition for the holistic development of students. It provides platform to students to present and develop themselves. It also includes some non-technical events like Teacher's Day and Get together events Induction Program and Farewell Events for fun.

Every year, almost all Students coming in second year takes the membership of the Institution of Engineers (India) Students' Chapter. Every year Students Committee is formed with Student Convener Election to conduct several events. Faculty Adviser is appointed for smooth conduction of activities and events. Faculty Adviser helps committee to bridge the gap between Student's Chapter,

IE(I) Pune Local Center, IE(I) Maharashtra State Center and IE(I) Head Quarter (HQ), Kolkata. Annual report is submitted to IE(I) HQ, Kolkata in the month of May every Year.

IE(I) Students' Chapter (Electronics Engineering) has bagged National Level Best Engineering

E&TC Department Students' Chapter bags National Level Awards 8 Times in Last 9 Years. **(Best:6 Times and Third Best:2 Times)**

The list of Awards is as follows:

Table 4.6.1.2: List of IE(I) National Level Awards

Sr. No.	Name of Award	Academic Year	Level of Award	Award includes
01	Best Engineering College Students' Chapter Award	2022-2023	National	Rs. 20000/- , Trophy and Certificate
02	Best Engineering College Students' Chapter Award	2021-2022	National	Rs. 20000/- , Trophy and Certificate
03	Best Engineering College Students' Chapter Award	2019-2020	National	Rs. 20000/- , Trophy and Certificate

IE(I) Award Trophy for the Year 2022-2023

The Institution of Engineers (India)

is pleased to present

Dr AMITABHA BHATTACHARYYA MEMORIAL TROPHY

to

AISSMS College of Engineering, Pune

(Department of Electronics and Telecommunication Engineering)

(as the Best Engineering College Students' Chapter for the year 2022-2023)

presented at the

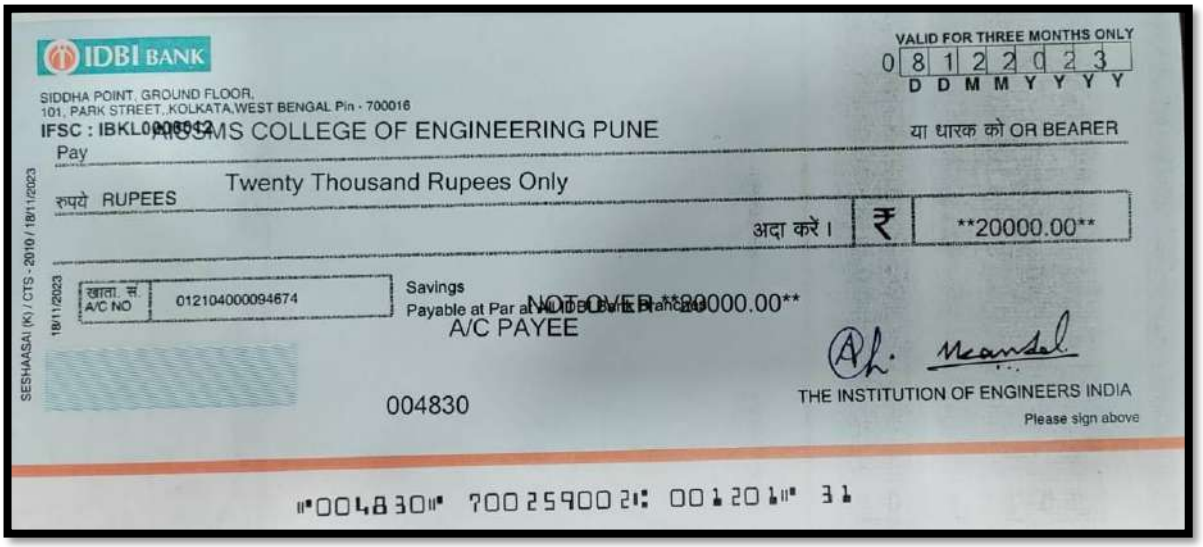
38th Indian Engineering Congress

Jabalpur, December 27-29, 2023

President

Secretary and Director General

IE(I) Award Certificate for the Year 2022-2023



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THE INSTITUTION OF ENGINEERS INDIA

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18/11/2023

Prize Money Cheque: Rs.20000/- for the Year 2022-2023

Mr. Nitin P Mawale receiving IEI Award for the Year 2022-2023

THE TIMES OF INDIA, PUNE
MONDAY, JANUARY 1, 2024

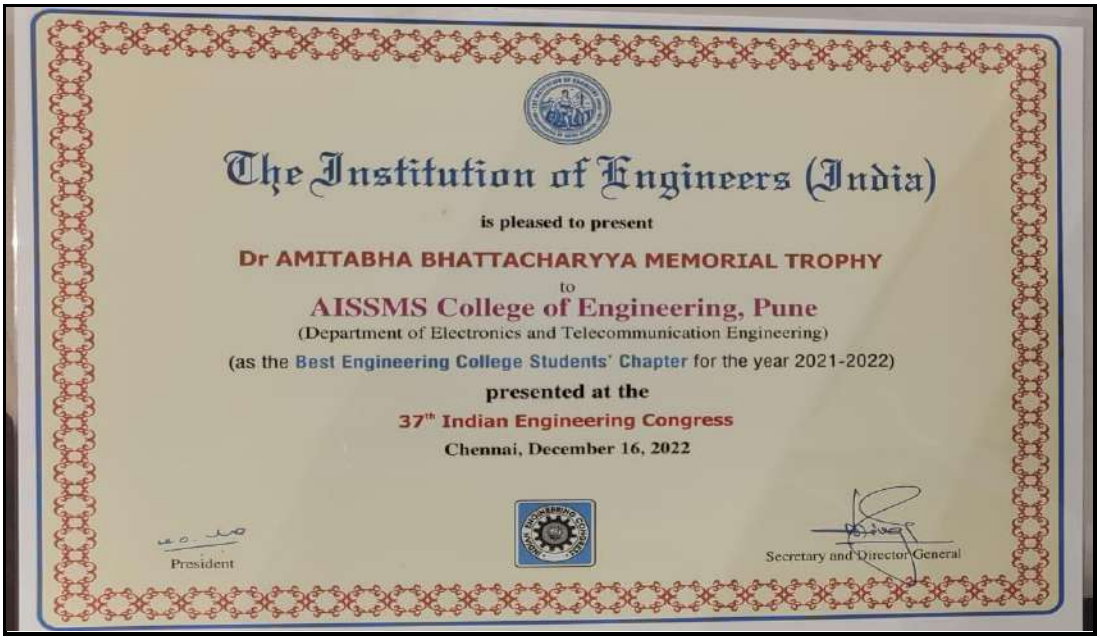
CITY DIGEST

AISSMS engineers win IEI award

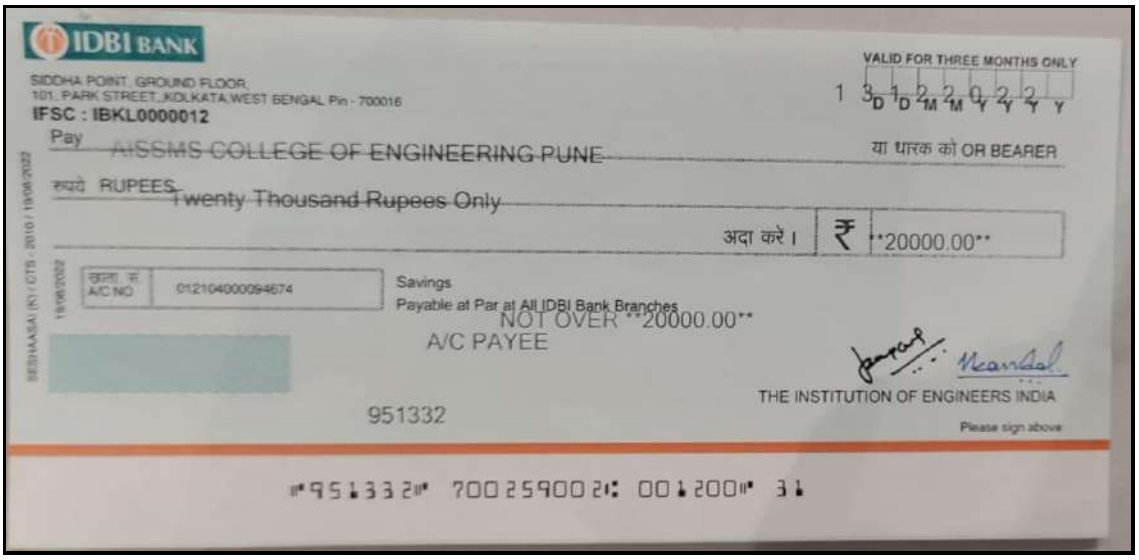
The AISSMS College of Engineering's E&TC department has secured the best engineering college students' chapter award 2022–23 from the Institution of Engineers India (IEI). The ceremony was held in Jabalpur during the 38th Indian Engineering Congress.

IEI Award News Coverage in Times of India

IE(I) Award Trophy for the Year 2021-2022



IE(I) Award Certificate for the Year 2021-2022



Prize Money Cheque: Rs.20000/- for the Year 2021-2022

IE(I) Award Distribution Photo held at Chennai for the Year 2021-2022

IE(I) Award Trophy for the Year 2019-2020

IE(I) Award Certificate for the Year 2019-2020

IE(I) Award Ceremony held at Jaipur on 10.11.2019, Dr. D S Bormane, Principal AISSMS COE, Pune, Dr. D G Bhalke, HOD E&TC and Prof. N P Mawale, Faculty Adviser, IE(I) Students Chapter (E&TC Engineering) attended Award Ceremony

The Institution of Engineers (India)

is pleased to present

Dr AMITABHA BHATTACHARYYA MEMORIAL TROPHY

to

AISSMS College of Engineering, Pune

(Department of Electronics Engineering)

(as the Best Engineering College Students' Chapter for the year 2018-2019)

presented at the

27th IEI Convocation and Technicians' / Students' Convention

Jaipur, November 10, 2019

President

Secretary and Director General

IE(I) Award Certificate for the Year 2018-2019

Our IE(I) Students' Chapter Faculty Adviser and Student Conveners are elected on National Level body of IE(I), All India Students Committee (AISC) several times.

The List is as follows:

Table 4.6.1.3: List of IE(I) All India Students Committee (AISC) Elected Engineering Faculty Adviser Representative

Sr. No.	Name of Faculty Adviser/Student Convener	Academic Year	Level	Elected as
01	Prof. N P Mawale	2022-2023	National	Engineering Faculty Adviser Representative
02	Prof. N P Mawale	2021-2022	National	Engineering Faculty Adviser Representative

चेन्नई : ३७ व्या द इन्स्टिट्यूशन ऑफ इंजिनिअर्स (इंडिया) काँग्रेस दरम्यान 'अभियांत्रिकी शिक्षण उत्कृष्टता पुरस्कार - २०२२' स्वीकारताना पुण्यातील अभियांत्रिकी महाविद्यालयातील प्राध्यापक नितीन मावळे.

'एआयएसएसएमएस'ला राष्ट्रीय अभियांत्रिकी शिक्षणाचा पुरस्कार

पुणे, ता. २३ : ऑल इंडिया शिवाजी मेमोरिअल सोसायटीच्या (एआयएसएसएमएस) पुण्यातील अभियांत्रिकी महाविद्यालयाला चेन्नई येथे झालेल्या ३७ व्या द इन्स्टिट्यूशन ऑफ इंजिनिअर्स (इंडिया) काँग्रेस दरम्यान 'अभियांत्रिकी शिक्षण उत्कृष्टता पुरस्कार - २०२२' मिळाला. शैक्षणिक क्षेत्रातील उत्कृष्ट योगदानाबद्दल तमिळनाडूचे शिक्षण मंत्री डॉ. एच. ओ. ठाकरे यांच्या हस्ते या बाबतचे प्रमाणपत्रही मिळाले.

प्राध्यापक व सल्लागार नितीन मावळे यांनी हे प्रमाणपत्र स्वीकारले. द इन्स्टिट्यूशन ऑफ इंजिनियर्स (इंडिया) तर्फे एआयएसएसएमएस अभियांत्रिकी महाविद्यालयाला २०२१-२२ या वर्षासाठी राष्ट्रीय स्तरावरील सर्वोत्कृष्ट अभियांत्रिकी महाविद्यालय 'स्टुडन्ट चॅप्टर अवॉर्ड' मिळाले. या पुरस्कारात २० हजार रुपये, चषक आणि प्रमाणपत्राचा समावेश आहे. या पुरस्कारासाठी संपूर्ण देशातून अभियांत्रिकीच्या ३०० हून अधिक महाविद्यालयांचे अर्ज आले होते. त्यातून 'एआयएसएसएमएस'ला हा पुरस्कार मिळाला. सोसायटीचे सचिव मालोजीराजे छत्रपती, सहसचिव सुरेश प्रताप शिंदे, खजिनदार अजय पाटील आणि प्राचार्य डॉ. डी. एस. बोरमणे यांनी महाविद्यालयातील प्राध्यापक, कर्मचारी आणि विद्यार्थ्यांचे पुरस्कारासाठी अभिनंदन केले.

Our 9 Students bags National Level Scholarship of the Institution of Engineers (India) for the Year 2021-2022.

Table 4.6.1.1 d) : List of National Level Scholarship of IE(I) to our Students

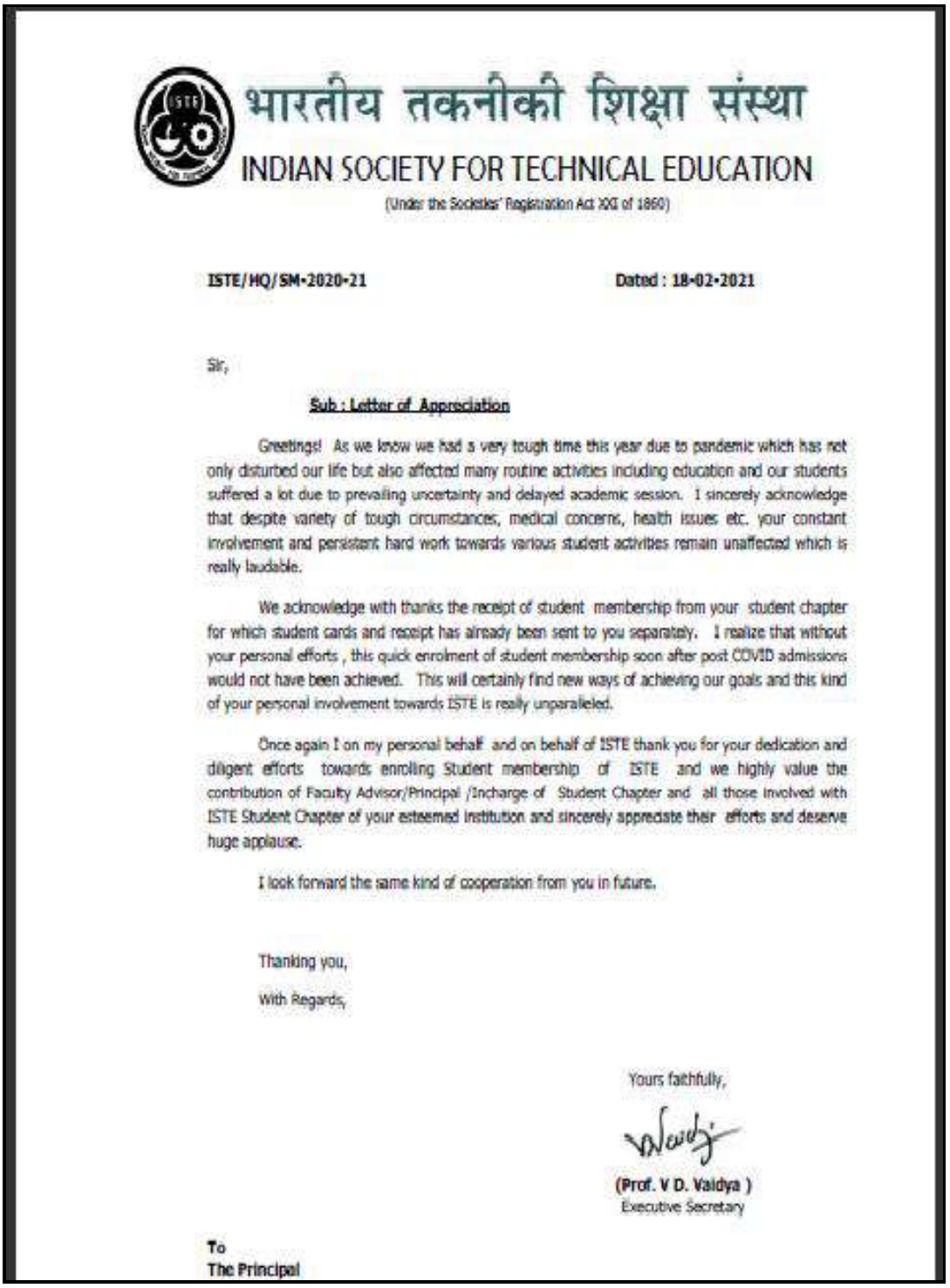
Sr. No.	Name of the Students	Class	Scholarship Amount (Rs)
1	Ms. LikhitaPawanBhujade	FE E&TC	**14,000/-**
2	Mr. PrajwalRajendraKakande	FE E&TC	**14,000/-**
3	Mr. RushikeshUmeshPawar	FE	**14,000/-**
4	Mr. PawanMarutiPowar	FE	**14,000/-**
5	Ms. Janvi Sanjay Mahapadi	FE E&TC	**6000/-**
6	Ms. PrachiRajendraKshirsagar	TE E&TC	**6000/-**
7	Mr. Vijay Dattatray Amble	TE E&TC	**14,000/-**
8	Mr. NirajNamdevSabale	TE E&TC	**6000/-**
9	Ms. DeepaliRajendraDalvi	TE E&TC	**14,000/-**
	Total Scholarship Received		**1,02,000/-**

Figure.4.6.4: Recipients of National Level Scholarships of the Institution of Engineers (India)

2.ISTE: Indian Society for Technical Education Students' Chapter

Institute has formed ISTE Students' Chapter in the Academic Year 2019-20 to organize different activities and events in Institute and department. One faculty advisor at Institute Level and One Faculty coordinator at Department Level is appointed for the smooth conduction of activities. Every year a new student committee is formed. The main focus of ISTE Students' Chapter is to organize guest lectures, seminars, skill development workshops etc. Our ISTE Students Chapter received letter of Appreciation from Head Quarter ISTE, New Delhi for constant involvement and persistent hard work towards various student's activities remains unaffected during pandemic period.

ISTE Students' Chapter Certificate (2020)



भारतीय तकनीकी शिक्षा संस्था

INDIAN SOCIETY FOR TECHNICAL EDUCATION

(Under the Societies' Registration Act XXI of 1860)

ISTE/HQ/SM-2020-21 Dated : 18-02-2021

Sir,

Sub : Letter of Appreciation

Greetings! As we know we had a very tough time this year due to pandemic which has not only disturbed our life but also affected many routine activities including education and our students suffered a lot due to prevailing uncertainty and delayed academic session. I sincerely acknowledge that despite variety of tough circumstances, medical concerns, health issues etc. your constant involvement and persistent hard work towards various student activities remain unaffected which is really laudable.

We acknowledge with thanks the receipt of student membership from your student chapter for which student cards and receipt has already been sent to you separately. I realize that without your personal efforts , this quick enrolment of student membership soon after post COVID admissions would not have been achieved. This will certainly find new ways of achieving our goals and this kind of your personal involvement towards ISTE is really unparalleled.

Once again I on my personal behalf and on behalf of ISTE thank you for your dedication and diligent efforts towards enrolling Student membership of ISTE and we highly value the contribution of Faculty Advisor/Principal /Incharge of Student Chapter and all those involved with ISTE Student Chapter of your esteemed institution and sincerely appreciate their efforts and deserve huge applause.

I look forward the same kind of cooperation from you in future.

Thanking you,

With Regards,

Yours faithfully,

(Prof. V D. Vaidya)
Executive Secretary

To
The Principal

Appreciation Letter: Ref. No. ISTE/HQ/SM-2020-21 Dated: 18.02.2021

Table 4.6.1.3 List of Engineering Events organized by ISTE Student Branch

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcomes PO
2021-22						
01	12/4/2022	Expert Session	Advancement in Communication Systems	Mr. Anirudha Kulkarni RF Engineer RF Lab Solutions	57	**PO1,PO2,PO6**
02	19/4/2022	Expert Session	Recent Trends and Technologies in FOC	Speaker: Mr. SudamChavan Deputy General Manager Tata Communications	70	PO1,PO5,PO6,
03	05/05/2022	Mini Project Competition	Mini Project Competition conducted for TE (E&C) students	Judges: Mr. M P Gajare (Assistant Professor AISSMSIOIT, Pune) Mrs. V N Patil (Assistant Professor,AISSMSIOIT)	80	**PO1,PO2,PO3,PO4,PO5,PO6,PO8, PO9,PO10, PO11,PO12**
2022-23						
04	9/11/2022	Expert Session	Electric Vehicle	Mr. Hemant Padhye Director Programs and Technology (Automotive), Pro Business Innovations (OPC) Pvt. Ltd.	117	PO6,PO7
05	12/5/2023	Project Based Learning	Project Based Learning Competition	Judges: Mr. M P Gajare (Assistant Professor,AISSMSIOIT) Mr. Itole (Assistant Professor,AISSMSIOIT) Dr. ShobhaNikam (Assistant Professor,AISSMSIOIT) Mrs. A ARandive (Assistant Professor,AISSMSIOIT) Mrs. S. Lohar (Assistant Professor,AISSMSIOIT)	70	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10,PO12

				Mr. A Y Kazi (Assistant Professor,AISSMS COE)		
06	18/5/2023	Mini-Project	Mini-Project Competition	Mini-Project Competition for TE E&TC students Judges: Mr. GauravPowar Vice President, Digilence Tech, Pune Mr. HarshalBhavsar Vice President, Digilence Tech, Pune Mr. D Itole (Assistant Professor, AISSMS IOIT) Mrs. A ARandive (Assistant Professor, AISSMS IOIT) Mr. S Jagtap (Assistant Professor, AISSMS IOIT) Mr. S Kale (Assistant Professor, AISSMS IOIT) Dr. L S Godse (Assistant Professor, AISSMSCOE) Mrs. V Tarange (Assistant Professor, AISSMSCOE)	78	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10,PO11,PO12
2023-24						
07	24/1/2024	Expert Session	Dive into Practical Mini-Project	Mr. VinaySidawadkar Project Manager,CDAC, Banglore	53	PO1,PO2,PO5,PO6

3. IEEE: Institute of Electrical and Electronics Engineering

Department started IEEE Students Branch in the academic Year 2020-21. One Student Branch Counselor is appointed for the smooth conduction of activities. Every year a new student committee is formed. The main focus of IEEE Students Branch is to organize IEEE International and National Conference, guest lectures, seminars and skill development workshops etc.

AISSMSCOE IEEE Students branch received Award:

IEEE Pune Section Emerging Student Branch Award in the Year 2020-2021

The list of Awards is as follows:

Table 4.6.1.4: List of IEEE Awards

Sr. No.	Name of Award	Academic Year	Level of Award	Award includes
01	Student Member Volunteer of The Year-2022 (Mr. Neeraj Mahajan)	2022-2023	IEEE Pune Section	Trophy and Certificate
02	Outstanding Student Branch Counselor-2021 (Dr. D G Bhalke)	2021-2022	IEEE Pune Section	Trophy and Certificate
03	Student Branch Counselor 2021 Award (Dr. D G Bhalke)	2021-2022	IEEE Pune Section	Trophy and Certificate
04	Outstanding Student Branch Chair-2021 (Mr. PiyushChoudhari)	2021-2022	IEEE Pune Section	Trophy and Certificate
05	Student Member Volunteer of The Year-2021 (Mr. PiyushChoudhari)	2021-2022	IEEE Pune Section	Trophy and Certificate
06	Emerging Student Branch Award	2020-2021	IEEE Pune Section	Trophy and Certificate

Award Certificate for the Year 2020-2021

National Level Engineering Events organized by IE(I) Students' Chapter

(E & TC Engineering)

Table 4.6.1.2 a) National Level Engineering Events organized by IE(I) Students' Chapter in **2023-2024**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome (PO)
AISSMSET 2023 (Silicon Fusion)						
01	14/09/2023 To 15/09/2023	Drone	Air-O-Task		46	Project Design Skills
02	14/09/2023 To 15/09/2023	Digimania Online Quiz Competition	Digimania		327	Technical Quiz Skills

03	14/09/2023 To 15/09/2023	Robotics	Robosoccer		75	Project Design Skills
04	14/09/2023 To 15/09/2023	Robotics	Robo Wrestling		49	Project Design Skills
05	14/09/2023 To 15/09/2023	Hackathon	Hackathon	Mrs. V S Navale	47	Model Design Skills and Public Speaking Skills

Table 4.6.1.2 b) National Level Engineering Events organized by IE(I) Students' Chapter in **2022-2023**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome (PO)
AISSMSET 2022 (Silicon Fusion)						
01	18/10/2022 To 19/10/2022	Drone	Aero task	Dr. P P Vast	40	Project Design Skills
02	18/10/2022 To 19/10/2022	Robotics	Robosoccer	Ms. Y P Lad	108	Project Design Skills
03	18/10/2022 To 19/10/2022	Robotics	Robo Wrestling	Ms. P PTayade	96	Project Design Skills
04	18/10/2022 To 19/10/2022	Quiz	Comic -Con	Ms. V VDeshmukh	120	Technical Quiz Skills
05	19/10/2022	Science Exhibition	Science Exhibition	Dr. K B Chaudhari	45	Model Design Skills and Public Speaking Skills

Table 4.6.1.2 c) National Level Engineering events organized by IE(I) Students' Chapter in **2021-2022**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome (PO)
AISSMSET 2021 (Silicon Fusion)						
01	29/09/2021 To 30/09/2021	Digimania Online QuizCompetition EC-1	Digimania	Ms. V VDeshmukh Ms. V D Nagrale	323	Technical Quiz Skills
02	29/09/2021 To 30/09/2021	Poster Competition EC-2	IdeaThon	Mrs. R RItkarkar	70	Project Design Skills
03	29/09/2021 To 30/09/2021	Coding Competition EC-3	Code Chronicles	Mr. S B Dhekale Mr. V B Gawai	32	Coding Skills
04	01/10/2021	Science Exhibition	Science Exhibition (SCITECH IDEATHON)	Dr. N NShejwal	55	Model Design Skills and Public Speaking Skills

Table 4.6.1.2 d) National Level Engineering events organized by IE(I) Students' Chapter in **2019-2020**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome (PO)
AISSMSET 2019 (Silicon Fusion)						
01	18/09/2019 To 19/09/2019	Drone Competition EX-1	Air-O-Task (Drone)	Mr. N P Mawale Mrs. R RItkarkar	77	Project Design Skills
02	18/09/2019 To 19/09/2019	Robo Competition EX-2	Robo Revolution 2.0 (Robo Soccer)	Mrs. K. B. Choudhari Mrs. V S Navale	189	Project Design Skills
03	18/09/2019 To 19/09/2019	Robo Competition EX-2	Robo Revolution 2.0 (Robo Reselling)	Mrs. K. B. Choudhari Mrs. V S Navale	189	Project Design Skills
04	14/09/2019 To	Digimania EX-3	Digimania (Elex/E&TC)	Mr. N. P. Mawale Ms. V VDeshmukh	472	Technical Quiz Skills

	19/09/2019	(Technical Quiz) (QC)		Mrs. Y P Lad		
05	14/09/2019 To 19/09/2019	Digimania EX-3 (Technical Quiz) (QC)	Digimania (Comp/IT)	Mr. N. P. Mawale Ms. V VDeshmukh Mrs. Y P Lad	472	Technical Quiz Skills
06	14/09/2019 To 19/09/2019	Digimania EX-3 (Technical Quiz) (QC)	Digimania (Electrical)	Mr. N. P. Mawale Ms. V VDeshmukh Mrs. Y P Lad	472	Technical Quiz Skills
07	18/09/2019 To 19/09/2019	Design Competition EX-4	Electro-Trade (Aptitude Test)	Mr. A Y Kazi Ms. V D Nagrale	29	Design Skills
08	18/09/2019 To 19/09/2019	Design Competition EX-4	Electro-Trade (Design)	Mr. A Y Kazi Ms. V D Nagrale	29	Design Skills
09	20/09/2019	Model/ Design Competition	Science Exhibition	Mr. S B Dhekale	300	Model Design Skills and Public Speaking Skills

Figure.4.6.1.1: Poster: 18th AISSMS Engineering Today-2023

Figure.4.6.1.2: Poster: 17th AISSMS Engineering Today-2022

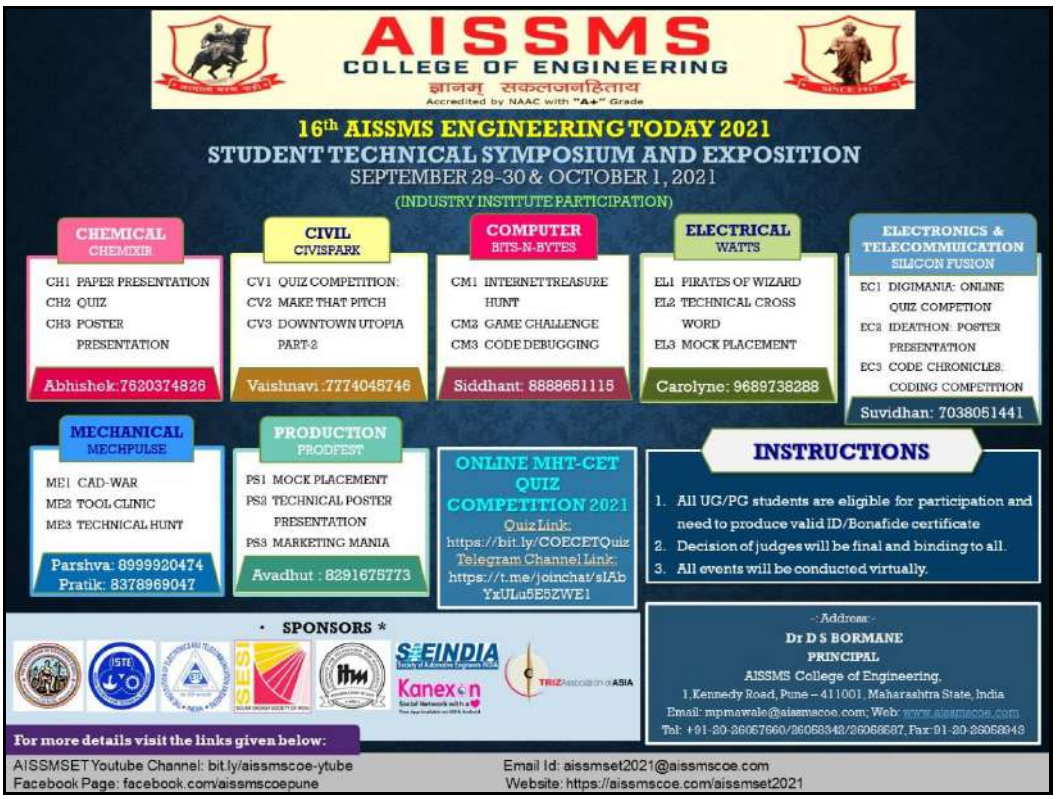


Figure.4.6.1.3: Poster: 16th AISSMS Engineering Today-2021

Media Coverage for National Level Event AISSMS Engineering Today is as follows:

Figure. 4.6.1.4: Media Coverage: AISSMS Engineering Today

लक्षकेंद्रित ध्येय, चिकाटी ही यशाची गुरुकिल्ली

पुणे, (वा.) लक्षकेंद्रित ध्येय आणि चिकाटी ही यशाची गुरुकिल्ली असून सर्व आव्हानांवर मात करण्यासाठी जीवनात नेहमी नवनवीन गोष्टी, तंत्रज्ञान शिकत रहा असे मत फ्लीटगार्ड फिल्टर्स प्रायव्हेट लिमिटेडचे माजी कार्यकारी अध्यक्ष सदाशिव पंडित यांनी व्यक्त केले.ऑल इंडिया श्री शिवाजी मेमोरियल सोसायटीच्या अभियांत्रिकी महाविद्यालयाच्या 'एआयएसएसएमएस इंजिनियरिंग टुडे-२०२३' च्या (दि.१४) सप्टेंबर रोजी आयोजित केलेल्या उद्घाटन समारंभात ते बोलत होते. या उदघाटनप्रसंगी सर्व विभागप्रमुख, शिक्षक व विद्यार्थी मोठ्या संख्येने उपस्थित होते.इंजिनियरिंग टुडे-२०२३ सारखे उपक्रम नावीन्य, संशोधन, ज्ञान आणि सर्जनशीलता एकत्रित ऐवुन जागतिक बदल घडवून आणण्यात महत्वपूर्ण योगदान देत असल्याचे सन्माननीय अतिथी ऋता बर्वे यांनी सांगितले. विद्यार्थ्यांनी शिक्षकांच्या मार्गदर्शनाखाली विद्यार्थ्यांसाठी आयोजित केलेला इंजिनियरिंग टुडे हा उपक्रम हा शैक्षणिक विकासासोबत, सर्वांगीण विकास करून, आयुष्यात यशस्वी होण्यात महत्वपूर्ण भूमिका बजावत असल्याचे प्राचार्य डॉ. दत्तात्रय बोरमणे यांनी सांगितले. सूत्रसंचालन कु. वैष्णवी पाटील यांनी केले.

Figure. 4.6.1.5: Inauguration Ceremony News: (Date: 20.09.2023)

18th AISSMS Engineering Today-2023

Figure.4.6.1.6: Advertisement in Navarashtra News Paper

Figure.4.6.1.8: Gold Certification for Energy Literacy Training to 1000+ Peoples

National Level Organization of Western Regional Conclave
Of
IEI Students' Chapters

S.N	Date	Activity	Topic	Speaker	No. of Participants
3nd Quarter October 2021 to December 2021					
First Western Regional Conclave of Students' Chapter -2021 **Role of Budding Engineers in Smart, Sustainable and Renewable Technologies** **Dates: 09-10 December 2021**					
1	09/12/2021 to 10/12/2021	Technical Quiz	IEI Western Regional Conclave of Students' Chapters	Prof. Nitin P Mawale, Organizing Secretary	2500+
2	09/12/2021 to 10/12/2021	Project Competition			
3	09/12/2021 to 10/12/2021	Paper Presentation			

4	09/12/2021 to 10/12/2021	Poster Competition			
5	09/12/2021 to 10/12/2021	Coding on MATLAB			
6	09/12/2021 to 10/12/2021	Circuit Wizard			
7	09/12/2021 to 10/12/2021	Drone Competition			
8	09/12/2021 to 10/12/2021	Robotics Competition			
9	09/12/2021 to 10/12/2021	Digimania			

Other Engineering Events: 2023-2024 (CAY+1)

Table 4.6.1.2 e) Engineering Events organized by IE(I) Students' Chapter in **2023-2024**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome PO
01	31/08/2023	Seminar	Climate Change and Awareness on Importance of solar Energy" & Solar Yatra by Energy Swaraj Foundation	Prof. Chetan Singh Solanki, IIT Mumbai, Department of Science and Engineering Mr. N P Mawale	200	Social Awareness
04	12/8/2023		Personality Development and Menstrual Hygiene specially for Girl Students and Lady Staff Members	Mrs. Priyanka Parmar Mr. N P Mawale Mrs. R R Itkarkar	80	Personality Development Skills

Other Engineering Events: 2022-2023 (CAY)

Table 4.6.1.2 f) Engineering Events organized by IE(I) Students' Chapter in **2022-2023**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome PO
01	01/04/2022	Expert Lecture	Principles of Communication Systems	Mr Aniruddha Kulkarani, RF Design Engineer Prof V S Navale	70	Technical Skills
02	24/05/2022	Expert Lecture	Webinar on Carreer Opportunities in Indian Army	Major Anand Patharkar Indian Army Mr V B Gawai	452	Campus Placement Skills
03	03/06/2022	Expert Lecture	Internatinal Webinar on "Study Opportunities in USA-post Covid-19"	Ms Sara Nutch Mr K P Singh	500+	Career Skills
04	17/12/2022	Expert Lecture	Benefits and Privileges of Professional Students' Chapters	Prof N P Mawale	200	Technical and non Tech Skills
05	26/07/2022	Expert Lecture	Benefits and Privileges of Professional Students' Chapters	Prof N P Mawale	200	Interview Skills Career Skills
06	14/02/2023	Seminar (S)	Digital Marketing Strategies:SEO	Ms Spurti Sushil, IBS, Pune Prof K B Chaudhari	51	Career Skills
07	15/02/2023	Seminar (S)	How to Write Research Paper	Ms V V Deshmukh Dr R R Itkarkar	64	Tech Paper writing Skills
08	14/03/2023	Seminar (S)	Preparation for Placement	Mr Piyush Chaudhari Mr Vignesh Iyer Ms Deepali Dalvi	50	Campus Placement Skills
09	07/04/2023	Seminar (S)	Carrier Guidance in Management	Mr Anuj Khanna	50	Career Skills
10	17/04/2023	Seminar (S)	Planning Startup	Mr Swacchand Gokhale	70	Entreprene urship & Start-up Skills
11	24/04/2023	Seminar (S)	How to prepare	Mr Vishal Nandargi,	60	Career

			For CAT	TIME, Pune		Skills
12	28/04/2022	Workshop	Five Days Faculty/Student Development Program on Audino	IIT Mumbai Spoken Tutorial	300	Entrepreneurship & Start-up Skills
13	12/07/2022	Workshop	Leadership Development in Women Professional Entrants	Mrs Priti Munshi Principal, Global Service Pune	41	Leadership Skills
14	19/07/2022	Workshop	Hands-On Workshop on PCB Design	Mr Onkar Darekar Mr Sahil Vora Mr Sumeet Tupe Dr P P Vast	55	Entrepreneurship & Start-up Skills
15	26/07/2022	Workshop	Campus to Corporate Initiative	Mr Ahar Wadikar CEO, Ask Corporation, Pune Prof N P Mawale	120	Campus Placement Skills
16	04/08/2022	Workshop	Virtual Laboratory	Mr Pushpdeep Mishra Prof Tanuja Khatavkar Prof Manish Nagoshe Prof N P Mawale	110	Technical Skills
17	19/08/2022	Workshop	Two Days National Workshop on Research Methods and Statistical Analysis	Dr Rajendra Kumbhar Mr Hitesh Solanki	45	Technical Skills
18	30/08/2022	Workshop	Robotics Design, Robo Soccer and Robo Reseller	Prof N P Mawale Prof V B Gawai	48	Technical Skills
19	31/08/2022	Workshop	Hands on Workshop on Machine Learning	Mr Bhawesh Patel Ex Chairman,CPDB Mr K B Chaudhari Mr N P Mawale Prof V B Gawai	300	Career Skills
20	15/10/2022	Workshop	Multitasking Robot Workshop	Mr Abhishek Lad Mr Ruturaj Patil	62	Career Skills

Other Engineering Events: 2021-2022 (CAY m-1)

Table 4.6.1.2 g) Engineering Events organized by IE(I) Students' Chapter in **2021-2022**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcome PO
01	10/04/2021	Seminar	JAVA Applets	Mrs Deepa Ubhe' SEED Infotech Ltd Pune	77	Entrepreneurship& Start-up Skills
02	12/04/2021	Seminar	Inauguration Ceremony of Centre of Excellence in Robotics and Automation	Dr D. G. Bhalke	160	Campus Placement Skills
03	31/07/2021	Seminar	Awareness of IEEE Membership	Dr Chanakya Kumar Jha Executive Member, IEEE India Council Chair SIGHT,IEEE Bombay Section	120	Interview Skills
04	02/08/2021	Seminar	Carrier Counseling	Ms. Shreya Pumpattiwar	65	Interview Skills
05	05/02/2022	Seminar	Automation Anywhere Certification	Mr Manish Gope Budhwani, Trainer	93	Technical Skills
06	25/02/2022	Seminar	Block Chain Technology	Mr Vijay Balaji, Elargo, Voice PresidentEmurgo India	47	Technical Skills
07	23/08/2021	Webinar	Motivational talk on Defense Services in India	Mr Pramod Kumar Vaidya HR Adminnistration	65	Motiovation Skills
08	04/10/2021	Webinar	Career Opportunities in AI and ML	Mr Akhilesh Deo Director, Automate Engineering Pvt.	80	Career Skills
09	06/04/2022	Expert Lecture	BSNL-GSM and LTE Technology	Mr Nilesh Wankhede Principal, Regional Telecom Training Centre, Pune	100	Technical Skills
10	13/11/2021	Expert Lecture	Battery Management & Designing- A Practical Approach	Mr Rushab Shingi Design Engineer AX Design Pune	100	Professional Skills

Other Engineering Events: 2020-2021 (CAYm2)

Table 4.6.1.2 h) Engineering events organized by IE(I) Students' Chapter in **2020-2021**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries / Participants	Event Outcome PO
01	08.05.2020	Webinar	Enhancing Human Skills	DrPravinParitkar, CEO	90	Human Skills
02	14.05.2020	National Webinar	Robotics Process Automation	Mr. Krishna Raju Mr. Mr. ArjunMeda Mr. Lovneet Sharma Automation Anywhere, Bangalore	1511	RPA Skills
03	15/05/2020	Webinar	Career Options and Opportunities for E &TC Graduates	Mr. Renjith C. V. ,Product Designer, Philips India Ltd. , Pune	111	Career Selection Skills
04	16/05/2020	Webinar	Approach to Goal Based Financial Investment &Importance of Planning	Mr. Siddharth Shah, Senior Investment Counselor, Wealth Managers India Pvt. Ltd. , Pune	102	Financial Planning Skills
05	16/05/2020	Webinar	"IEEE Conference Quality, Writing Methodology about research paper and publication platform	Dr. Lance Fung, Professor, Murdoch University, Western Australia, Dr. Chankya Kumar Jha, Vice Chair HAC IEEE India Council and Dr. Saurabh Mehta, Chief Academic Officer ,VIT	251	Technical Paper Writing, Publications Skills
06	23/05/2020	Webinar	Data Engineering, Data Analysis and Business Intelligence	Mr. ShubhamGhodake, Junior Decision Scientist at MU Sigma Inc., Bengaluru and Former Head and Founder member of Aviot -O-Virtue (AISSMS COE Drone & Robotics Club)	103	Data Science Skills
07	23/05/2020	Alumni Interaction	Alumni Interaction and Panel Discussion	Mr. SujayBodhani, Tata Motors Ltd., Mr. AkshayMisal, John Deere	57	Career Guidance Skills

08	24/05/2020	Webinar	Career Opportunities in Indian Army	Major Anand S. Patharkar, Sena Medal	521	Career Guidance Skills
09	24/05/2020	Webinar	Intellectual Property Rights	Dr. B. K. Sarkar, Director, GEH-Research Lab	511	IPR Skills
10	25/05/2020	Webinar	Usage of UAV's in COVID 19	Mr. Akash P. Malas, R & D Engineer, Symtronics Automation Associate, Pune	104	Drone Design Skills
11	26.05.2020	National Webinar	Genius Code: Performance of Science	Mr. Tejas Toro	1315	Mental Skills
12	30.05.2020	International Webinar	Leadership Development at Women Professional Entrants	Mrs. PritiMunshi Principal Global Services, Pune	1507	Leadership Skills
13	30/05/2020	Webinar	MATLAB Tools for Deep Learning	Mr. SurajGawande, Sr. Application Engineer, Designtech Systems Ltd.	150	Modern Tools Skills
14	30/05/2020	Webinar	IOT Applications	Mr. AbhigyanamGiri, Training Head, IndEyesInfotech Pvt. Ltd.	1504	IOT Skills
15	31.05.2020	International Webinar	Advanced Digital Content Creation Tools for Education	Mr. RajendraKhope IO Care, Pune	1021	Digital Tools Skills
16	03.06.2020	International Webinar	"Study Opportunities in USA post Covid-19"	Mr. K P Singh, CEO, And Founder IMFS & Ms. Sara Nutsch, Marketing and Recruitment Manager, Oregon State University, USA	753	Career Selection Skills
17	07.06.2020	International Webinar	Re - Engineering The Supply Chain: Imperatives for Post Pandemic Scenario."	Maj. Gen. Dr. Souresh Bhattacharya, VSM (Retired), SDG, Institution of Engineers (India), Kolkata	1503	Supply Chain Skills
19	12.06.2020	Online National Conference	NCIET-2020	Dr. MunirSayyyed General Manager, JIO, Mumbai	501	Paper Writing and Presentation Skills

20	14.06.2020	International Webinar	" Employability Skills 2020-Post Covid-19"	Mr. SwaaruupGandewar, Founder GTGP, Nagpur	1507	Employability Skills
21	18.06.2020	International Webinar	" Employability in Current Situation"	Mr. AkshaiSeshadri	1003	Career Skills
22	June 2020	National Level Online Quiz	Quiz on Drone	Mr. N P Mawale Mr. V B Gawai	503	Drone Skills
23	June 2020	National Level Online Quiz	Quiz on Robotics	Mr. N P Mawale Mr. V B Gawai	507	Robotics Skills
24	June 2020 Onwards	Certification Course	Learn to Design Solar for Homes	In Association with AICTE and Energy Swaraj Foundation	6508	Solar Design Skills
25	21.06.2020	International Level	International Yoga Day-2020	Heartfulness Experts	2501	Yoga Skills
26	22/06/2020	Webinar	Webinar on Typeset Studio	Mr. Zeeshan Ahmed	1307	Publications Skills
27	26.06.2020 to 15.07.2020	National Level Quiz	Tribute ChhatrapatiShahuMaharaj	Mr. N P Mawale	2306	Historical Skills
28	05.07.2020	International Webinar	"Enhancing Quality of Education of Online Teaching Through Outcome Based Education"	Dr. D G Bhalke	1305 (28 Countries, 90 International Participants)	Teaching Skills
29	06.07.2020	Inauguration Ceremony of Induction Program	1.Welcome Address 2.Department Introduction 3. Why E &TC ?	Dr. D G Bhalke	306	Career Skills
30	06.07.2020	Webinar	Health & Happiness Workshop	Mr. Arvind Goel Youth Leader & Mentor, International Association for Human Values	306	Art of Living Skills
31	06.07.2020	Webinar	Virtual Internship	Mr. SwaarrupGandewar, Founder and CEO, GTGP, Nagpur	307	Internship Skills

32	06.07.2020	Webinar	Physical fitness: promotion to Sports and Cultural activities	Dr.M.M.Kondhare, (Physical Director), Ms.K.N Kulkarni (Cultural Coordinator)	309	Extra Curricular Skills
33	06.07.2020	Webinar	CITP Support for the Students	Dr. A.V.Waghamre (Head, CITP) Ms.V.D.Nagrale (Dept. CITP Coordinator)	309	Career Skills
34	07.07.2020	Webinar	Importance of Project from Placement point of view	Mr. RjeshVartak, Director and Chief Mentor, Texceed Technologies	507	Project and Placement Skills
35	07.07.2020	Webinar	Role of Professional Students' Chapter in Enhancing Engineering Students Career Growth and increasing Opportunities	Dr. S M Ali, Director, Membership , IE(I), Kolkata	1504	Professional Societies Students' Chapter Skills
36	07.07.2020	Webinar	Opportunities and Challenges for Research and Development &IE(I) Initiative for Research Funding	Dr. NilanjanSengupta, Director, Technical , IE(I), Kolkata	1504	Research Funding Skills
37	08.07.2020	Webinar	Life Long Learning Skills: Meditation, Yoga and Physical Fitness	Mr.AkshaiSheshadri Member, Heartfullness	78	Life Long Learning , meditation and Yoga Skills
38	08.07.2020	Webinar	Being Interview Ready-The do's and don'ts in any Interview!	Ms. Monika Nehe, Lead -business Group HR, BFSI-US West, TCS	85	Interview Skills
39	08.07.2020	Webinar	Stress Management	Dr. C A Halingale, Nirmal Hospital Vesanmukti Kendra Miraj	406	Stress Managemen t Skills
40	08.07.2020	Webinar	Hackathon Competition Preparation	Mr.ShubhamBadhe, Alumni of AISSMSCOE and student IIM,Ahmadabad	107	Hachathon/ Design Skills

41	08.07.2020	Webinar	Financial Management to life long learning Skill	MrSiddharth Shah, Senior Investment Counselor, Wealth Managers India Pvt Ltd	503	Financial Planning Skills
42	09.07.2020	Webinar	Opportunities and Preparation for Campus Placement	Prof. S. P. RaoBorde, Secretary, MahaTPO& TPO, JSPM RSCOE, Pune	503	Career Selection Skills
43	09.07.2020	Webinar	How to kick start your campus Preparation	Dr. Madhav Raul, Joint Secretary, MahaTPO	503	Campus Preparation Skills
44	09.07.2020	Webinar	Resume Building	Mr. KedarChaudhari, Staff Engineer, NSX Division, VMware	503	Resume Writing Skills
45	09.07.2020	Webinar	Online Certification	MrLalitBhalerao, Senior Consultant, Price Water House Coopers Pvt Ltd	307	Online Certifications Skills
46	09.07.2020	Webinar	Entrepreneurship Quality	Mr. Ishan K, Founder, CMO & Lead Strategist, Embedgallery Electronics Pvt Ltd	501	Entrepreneurship Skills
47	10.07.2020	Webinar	Opportunities and Challenges for Industry 4.0: What Industry Looks in Students	Dr. EntyRangga Reddy, Chairman and Managing Director,Legend Technologies (India) Pvt. Ltd.Bangalore& AISC Chairman, IE(I), Kolkata	1509	Industry 4.0 Skills
48	10.07.2020	Webinar	Higher Educational Opportunities and Carrier prospects in Germany	Ms. Nikita Gaikwad, Consultant, Berlin (Germany), Masters in Logistic, Berlin (Germany) Supply Chain Integration in Wayfair	1509	Higher Study Skills
49	10.07.2020	Webinar	Alumni panel Discussion: Industry expectations from the students	Mr Nadeem Athani, Team Leader, Sasken Technologies Ltd, Gaurav Powar, Vice President, Diligence Tech& GunjanNaik, Data Scientist, Deep Tek Pvt. Ltd.	509	Career Selection Skills

50	10.07.2020	Webinar	Opportunities in RPA	Mr. SagarKothe, Associate Director, PWC India	1004	RPA Skills
51	02.09.2020	Webinar	Embedded Systems and RTOS	Mr. Dnyanesh P Joshi Senior Software Engineer, Magic Leap San Jose, California Dr. P P Vast	98	Embedded Skills
52	05.09.2020	Webinar	Teachers Day Celebration	Dr. D S Bormane, Principal, AISSMSCOE, Pune Dr. D G Bhalke, HOD, E&TC Mr. N P Mawale	106	Event Management Skills
53	15.09.2020	Webinar	"Career Opportunities in Civil Services for Engineers"	Mr. Prateek V Thube Indian Police Service (IPS) Superintendent of Police (SP) Assam and Meghalaya Cadres Mr. N P Mawale	132	Career Skills
54	15.09.2020	Webinar	Opportunities & Challenges for Electronics Engineering Students	Dr. D G Bhalke HOD &Professor E&TC Engineers Mr. N P Mawale	132	Career Skills
55	16.09.2020 to 27.09.2020	AarambhTechnoThon	Drones Quiz Competition	Mr. N P Mawale Mr. V B Gawai	305	Drone Skills
56	16.09.2020 to 27.09.2020	AarambhTechnoThon	Robotics Quiz Competition	Mr. N P Mawale Mr. V B Gawai	206	Robotics Skills
57	24.09.2020	Webinar	Virtual DELDSIM Simulator for Digital Circuits	Mr. AkshayKudale Founder, DELDSIM, Pune Mr. N P Mawale	60	Simulation Skills
58	25.09.2020	Webinar	Create Your Success Story with Growth Mindset	Dr. RupaliPawar, Founder and CEO TechieMindz Mrs. R RItkarkar	101	Motivational Skills

Table 4.6.1.3 a) List of Engineering Events organized by IEEE Student Branch in **2023-24**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcomes PO
01	10/08/2023	IEEE membership drive A.Y 2023- Sem-I	-	-		
02	22/08/2023	Seminar	Awareness program on Industry 4.0	Ms. Mrunal C4i4 Lab (Centre for Industry 4.0) of Samarth Udyog Technology Forum, Pune; (Smart Advanced Manufacturing and Rapid Transformation Hub).	100	Technical Skills
03	25/08/2023	Expert Session	IT infrastructure and production services and opportunities	Mr. Santosh Rangdal – Senior vice president Bank of New York Mellon, Pune	75	Placement Skills
04	12/09/2023	A Seminar Under Gender Equality and Women Empowerment	Personality Development and Menstrual Hygiene Specially for Girl students and lady Staff Members	Mrs. Priyanka Parmar- Professor, Trainer& Life Coach at Seven Mentor Training Institute.	158 girl students and 15 faculty	Social Skills
05	11/10/2023	industrial visit to Megha Embedded system Pvt Ltd, Chakan	Megha Embedded system Pvt Ltd, Chakan on 27th Septembe		83 students and 5 faculty	Technical Skills
06	27/10/2023	Social Visit to 'Mother Teresa Home', Missionary of Charity,	'Mother Teresa Home', Missionary of Charity,	Sr. M. Philip	35 students and 2 faculty	Social Skills
07	02/10/2023	RoboSoccer-SB contest activity	Webinar on Robotics "Robotics in Dynamic	Dr.ShitalChiddarwar, Professor at Visvesvaraya National Institute of	160	Technical Skills

	12/10/2023		Environment" Robo-Soccer Competition	Technology & Center Head at Siemens Center of Excellence at VNIT, Nagpur. Competition held at AISSMS COE	23 Teams	
08	09/01/2024 11/01/2024	Campus recruitment test Seminar on How to Crack Aptitude under AISSMS COE IEEE	Campus recruitment test Seminar on How to Crack Aptitude under AISSMS COE IEEE	T.I.M.E, Shivaji nagar Pune KapilDixit &AnujKhann, T.I.M.E, Shivaji nagar Pune	120	Campus Placement Skills
09	14/03/2024	IEEE Benefits	IEEE benefits	by Alumni Mr PiyushChaudhari	52	

Table 4.6.1.3 b) List of Engineering Events organized by IEEE Student Branch in **2022-23**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcomes PO
01	29/07/2022	Social Visit to Bal Kalyan Sanstha Pune	Social Visit	-	80	Social Skills
02	15/08/2022	Slogan Competition on the occasion of Azadi ka Amrit Mahotsav	Slogan Competition	-	50	Social Skills
03	08/09/2022	Webinar on 'Benefits of IEEE Membership'	Benefits of IEEE Membership	Mr. Devang Pingale, Co-SSR IEEE Pune Section	100	
04	01/09/2022 to 30/09/2022	IEEE Membership Drive A.Y. 22-23 (Phase-1)	-	-	20	

05	17/10/2022	IEEE Day 2022 Celebration	-	-	50	
06	07/11/2022	Industrial Visit to Dankel Tech Pvt. Ltd. Pune	Industrial Visit	-	80	Technical Skills
07	15/02/2023	How to write a Research Paper	Expert Session	Mrs. VidyaDeshmukh, Assistant Prof. AISSMS COE, Pune	41	Research Skills
08	14/03/2023	Session on "Preparation for Placements"	Strategies of cracking interviews	Mr. PiyushChaudhari (BE E&TC AISSMS COE) Mr. Vignesh Iyer (BE E&TC AISSMS COE) Ms. DeepaliDalvi (BE E&TC AISSMS COE) Mr.Vedant Dere (BE E&TC AISSMS COE)	50	Placement Skills
09	17/04/2023	Session on "Career Guidance in Management	Information and scope in MBA	Mr. Anuj Khanna, Center Director, Competitive Approach Technique for T..I.M.E., Pune	50	Carrier Skills
10	18/04/2023	Session on "Planning A Startup"	Strategies for startups	Mr. Swacchand Gokhale	70	Entrepren -eurship & Start-up Skills
11	24/04/2023	Session on "How to prepare for CAT"	Preparation for CAT exam	Mr. Vishal Nandargi, TIME Pune	85	Carrier Skills
12	26/04/2023	Session on "How to prepare for GATE"	Guidance on preparation for GATE exam	ACE Academy Pune	80	Carrier Skills

Table 4.6.1.3 c) List of Engineering Events organized by IEEE Student Branch in **2021-22**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcomes PO
01	13/08/2021	Awareness Session on 'IEEE Membership Benefits'	IEEE Membership Benefits	Ms. Shreya Bhonsle, PR Team Member, IEEE Pune Section Mr. PiyushChaudhari, Chair, AISSMSCOE IEEE Student Branch	250	
02	06/09/2021 to 10/09/2021	Student Development Program (SDP) on Drones Operations Management	Drone Operations Management	Mr. Arjun Ghule, Director, RBG Group Mrs. ArchanaGhule, Director, Buds Engineering Academy Dr.PratimaKalyankar, JaywantraoSawant College of Engineering Mr. B. Kranthi Kumar, Sahyadri College of Engineering and Management Dr.PallaviAdke, Buds Engineering Academy	250	Technical Skills
03	30/09/2021	16th AISSMS Engineering Today 2021 – Silicon Fusion's Ideathon: National Level Idea Presentation Competition	Idea Presentation Competition	Guest Jury - Mr. SuryakantDodmise, Founder & CEO of SIBIC Business Incubator	74	Technical & Management Skills
04	04/10/2021	Webinar on Career Opportunities in Artificial Intelligence	Career Opportunities in Artificial Intelligence and Machine Learning	Mr. AkhileshDeo, Director, Automate Engineering Pvt. Ltd. Pune	80	Carrier Skills

		and Machine Learning		Ms. Shweta Chaudhari, Senior Software Developer, Harbinger Systems		
05	05.10.2021	International Webinar	Smart, Clean and Green Electrical Energy for the Sustainable Future' on the occasion of IEEE Day 2021 Celebration	Dr. Deepak Waikar, Chair, IEEE Education Society, Singapore Chapter	103	**Sustainability Skills**
06	23.10.2021	Programming Competition	IEEE Xtreme 15.0 Programming Competition	Proctor – Dr. M.H.Dhend, IEEE Senior Member (No. 93243765), AISSMS COE Pune	15	Programming Skills
07	29.10.2021 to 30.10.2021	International Conference	Smart Gen Computing, Communication and Networking SMARTGENCON-2021 Technically Co-Sponsored by IEEE Pune Section	Keynote Speakers: Dr. Deepak Waikar, Chair, IEEE Education Society, Singapore Chapter Dr. Alexandros-Apostolos A. Boulogeorgos, Research Assistant/Project Engineer, University of Piraeus, Greece Raneen Kango, Software Engineer, Amaan, Jordan Dr. Gwo Giun Chris Lee, Professor, National Cheng Kung University, Taiwan	157	**Presentation Skills**
08	13.11.2021	Webinar	Expert Talk on Battery Management and Designing – A Practical Approach	Mr. Rushab Shingi, Design Engineer, AX Design Pune	100	Design Skills
09	15.11.2021 to 18.11.2021 & 22.11.2021	Webinar Series	Webinar Series on Research Methodology	Dr.Mausmi Munot (PICT Pune) Dr. Nilesh Uke (Principal,Trinity Academy of	91	Research Skills

	to 23.11.2021			Engineering,Pune) Dr. S M Gulhane (Principal, Pravara Rural COE,Pune) Dr. Parikshit N Mahalle (VIIT,Pune) Dr. Piyush Kumar (Professor at East West COE,Bengaluru) Dr. D G Bhalke (AISSMSCOE, Pune)		
10	01/01/2022 to 31/01/2022	Membership Drive	AISSMS COE IEEE membership drive for SE in offline	Mrs. R R Itkarkar &Mr. Piyush Chaudhari	75	Leadership Skills
11	28.02.2022	Science Exhibition	Science Exhibition at Kalyan Goan under AISSMS COE IEEE student Branch and donated science projects to Madhyamik Vidyalay, Kalyan, Pune	Mrs. R R Itkarkar, AISSMS COE IEEE EXICOM Team and IEEE student Members	35	Technical Skills
12	06.04.2022	Expert Lecture	GSM Technology and 4G LTE Technology	Mr. Nilesh Wankhede BSNL, Pune	67	Technical Skills
13	08/04/2022	Industrial Visit to Mapro Food Park on the occasion of 'IEEE Educational Week 2022	Industrial Visit	-	100	Technical Skills
14	19/04/2022	Institute Level Project Exhibition	Project Exhibition		60	Technical Skills

Table 4.6.1.3 d) List of Engineering Events organized by IEEE Student Branch in **2020-21**

Sr. N0.	Date	Title of Activity	Topic	Speaker/Organizer(s)	No. of Beneficiaries/ Participants	Event Outcomes PO
01	25.09.2020	Webinar on 'Create Your Success Story with Growth Mind set'	Create Success Story with Growth Mind set	Dr. Rupali Pawar, Founder & CEO, TechieMindz	104	**1) Practice Growth Mindset for Academics, Professional and Personal Success and** **2) Develop Skills Set for Job Interviews & Aptitude Tests.**
02	03.10.2020	Inauguration of AISSMSCOE IEEE Student Branch	Inauguration of AISSMSCOE IEEE Student Branch (STB-98723)	Mr. Girish Khilari, Chair-IEEE Pune Section, Dr. Chanakya Kumar Zha, Vice-Chair,Humanitarian Activity, IEEE India Council, Mr. Jagdish Choudhary, Vice-Chair, IEEE Pune Section, Dr. Amar Buchade, Secretary, IEEE Pune Section, Dr. Rajashree Jain, Treasurer, IEEE Pune Section, Dr. P.B.Mane, Principal, AISSMS IOIT & Chair- SAC IEEE Pune Section	115	**1) Members must know about Benefits of IEEE Membership, Women in Engineering (WIE), IEEE Student Activities.** **2) Learn about IEEE Student Branch Planning**

03	03.10.2020	Webinar on- 'Engineering Graduate- A Road Map'	Engineering Graduate- A Road Map	Dr.Shankar Nawale, Principal, N.B.Navale Sinhgad College of Engineering, Solapur	109	**1) Students must know about required Graduate Skills Set, Aspects of Project and Problem based learning, Opportunities for E&TC Engineers in various sectors.2) Develop Integrated Engineering Approach**
04	06.10.2020	IEEE Day 2020 Celebration & Webinar On 'Evolution of Telecom Network – Landline to 5G'	Evolution of Telecom Network – Landline to 5G	Mr. Avnish Kumar, Head, RNOP, MAN / PLG, Etisalat (Emirates Telecom), Dubai	205	1) Know about Evolution of Telecom Network 2) Gain information about 5G and its practices done in worldwide
05	28.10.2020	Webinar on 'Resume Preparation'	Resume Preparation	Dr. Madhav Raul, Head-T&P SVPM's COE Malegaon,Baramati	166	1) Students must know about Essentials of resume. 2) Get tips for writing great resume.
06	31.10.2020	National Webinar on 'My Journey to Brain'	Journey to Brain	Hon. Prof. Prabhat Ranjan, Vice-Chancellor, D.Y.Patil International University, Akurdi,	294	1) Participants get to know about Prof. Ranjan Prabhat's research

				Pune. (Former Executive Director, TIFAC, New Delhi).		&inventions in field of Nuclear Physics, Space Research & Brain Computer Interface. 2) Speaker motivated participants to contribute for research work in their respective fields.
07	06.11.2020	Webinar on 'Introduction to Industrial IoT and Its Prospects'	Introduction to Industrial IoT and Its Prospects	Mr. Sandeep Shroff, Founder & CEO Autointell Services	103	Study in brief about IIoT and its evolution with a brief timeline of Industrialization and Internet &typical 3 tier IIoT Architecture &Coorelations among M2M, WSNs, IOT.
08	11.11.2020	Webinar on 'How to write Research Papers'	How to write Research Papers	Dr. Parikshit N. Mahalle, HOD Computer Engineering, S.K.N COE, Vadgaon, Pune	152	Guidance about Terminologies related to a research paper, Elements of a research paper (content, style, format) & Tools that can be used when writing a research paper.
09	13.11.2020 to 18.11.2020	Awareness campaign to celebrate Diwali Safe & Eco-Friendly and Promote 'Vocal for Local' mission	Awareness campaign to celebrate Diwali Safe & Eco-Friendly and Promote 'Vocal for Local' mission	AISSMSCOE, IEEE Student Branch, NSS Unit AISSMSCOE, Rotaract Club Kalyaninagar &Jagruti Group Pune	508	1) Create awareness about Environment. 2) Take pledge to Celebrate

						Diwali Safe & Eco-Friendly and Promote 'Vocal for Local' mission.
10	26.12.2020	Webinar on 'Benefits of IEEE Membership'	Benefits of IEEE Membership	Dr. P.B.Mane, Chair-SAC, Principal, AISSMS IOIT Dr. Amar Buchade, Secretary, IEEE Pune Section Mr. Siddharth Saoji, Co-SSR, IEEE Pune Section Ms. Vaishnavi Nair, Co-SSR, IEEE Pune Section	86	Student got information about benefits of IEEE Membership, IEEE Student Activities, Research Paper Publication with IEE, Competitions organized by IEEE, Awards, etc.
11	27.12.2020 to 31.12.2020	IEEE Membership Drive -2021	IEEE Membership Drive -2021	AISSMSCOE IEEE Student Branch (STB-98723)	33	Students got a platform to enrol themselves for IEEE Membership with attractive discounts in membership fees.
12	08.02.2021	Webinar on 'UI Development'	UI Development	Mr Umesh Patil, Project Manager, Infosys	147	1) Students got knowledge about building blocks of UI using HTML, CSS3 & JavaScript. 2) Students got a practical Session of UI Development for Web.
13	10.02.2021	Webinar on 'Importance of AMCAT & Job Prospects in Current Scenario'	Importance of AMCAT & Job Prospects in Current Scenario	Mr. Ankur Srivastava, Senior Manager, AMCAT	126	1) Information about AMCAT & Assessment Techniques of

						AMCAT 2) Information about Job Prospects& Placements in the current situation
14	17.02.2021	Induction Function of AISSMSCOE IEEE Student Branch Members - 2021	Induction Function of AISSMSCOE IEEE Student Branch Members - 2021	Dr D.S.Bormane, Principal, AISSMSCOE Pune Dr D.G.Bhalke, HOD-E&TC & IEEE Branch Counsellor	49	1) Members of the AISSMSCOE IEEE Student Branch got insights & information about IEEE and how Student Branch planned & execute different activities. 2) Discussion on Annual Plan of AISSMSCOE IEEE Student Branch
15	01.03.2021 to 02.03.2021	National Level Workshop on 'Technologies for Enabling Wireless Communication'	Technologies for Enabling Wireless Communication	Mr. Satheeshkumar, Sr. Embedded Engineer, Pantech	703	1) Practical Session on Arduino Circuits using Arduino IDE & Proteus and Bluetooth Technology using Proteus 2) Practical Demonstration of NodeMCU, ThingSpeak& Message protocols.
16	09.03.2021	Webinar on 'Recruitment	Recruitment Guidance	Mrs. Priti Munshi, Senior Delivery	104	1) Students got information

		Guidance'		Manager, Principal Global Services		about How to face Technical/ Non-Technical interviews? 2) Guidance about Resume/CV.
17	10.03.2021	Motivational Talk on 'Journey to NASA'	Journey to NASA	Ms. Leena Bokil, NASA-Honeywell Educator, Science Communicator	137	1) Participants got information about NASA's Educational & Research Programs 2) Speaker hared her research experience with NASA on space mission projects.
18	11/05/2021	National Level Quiz Competition on 'Techno-Social Awareness' on the occasion of National Technology Day	Techno-Social Awareness		730	
19	23/05/21	National Level Quiz Competition on 'Telecommunication System' on the occasion of World Telecommunication & Information Society Day	Telecommunication System		300	
20	23/05/2021	National Level Webinar on 'Stress Management'	Stress Management	Dr. Anil Kumar Garg, International Motivational Speaker, Corporate	600	

				Coach, Sales Guru & Experienced Professional Counsellor		

Sample Glimpses of Events Organised:

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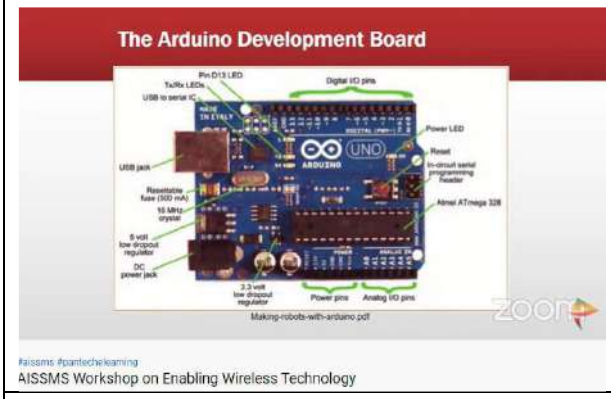
<tr><td> 
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<tr><td>Webinar on ‘Recruitment Guidance’</td><td>Webinar on ‘AMCAT’</td></tr>
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4.6.2 Publication of Technical Magazines, Newsletters, etc. (5M)

4.6.2.1 Publication of Newsletter

Department of electronics and telecommunication engineering publishes bi – annual newsletter to convey department activities and achievements. It contains technical news, technical blogs by students, department activities, awards and achievements (academic, co-curricular and extra-curricular) by students and faculty and research paper publications. The copy of newsletter is available at department office in hard form and circulated among all faculty and students in soft form. It is also available on college website.

Table 4.6.2.1.1 Newsletter published by department

Sr. No	Academic Year	Name of The Newsletter	Name of Publisher / Editor	Month and Year of Publication	Students Editors
1	2022-23	Department Newsletter	Dr S B Dhonde Mrs. V S Navale	June 2023	Ms. ShrutiGadhave Ms. RajweeWable
2		Department Newsletter	Dr S B Dhonde Mrs. V S Navale	Dec 2022	
3	2021-22	Department Newsletter	Dr D G Bhalke Mrs. V S Navale	June 2022	Ms. Suvidhan Mane Mr. AshutoshPardeshi
4		Department Newsletter	Dr D G Bhalke Mrs. V S Navale	Dec 2021	
5	2020-21	Department Newsletter	Dr D G Bhalke Mrs. V S Navale	June 2021	Mr. SwapnilPawar Ms. Sana Subhedar
6		Department Newsletter	Dr D G Bhalke Mrs. V S Navale	Dec 2020	

4.6.2.2 Publication of Magazines

Department of Electronics and Telecommunication Engineering also publishes Technical Magazine "**ELECTRONICS EXPLORER**" to present technical, Communication and artistic skills.

Table 4.6.2.2.1 Technical Magazine published by department

Sr. No	Academic Year	Name of Publisher / Editor	Month and Year of Publication	Students Participation
1	**2020-21**	Dr. D S Bormane Dr. D G. Bhalke Mr. N P Mawale	**July 2020**	Ms. MaluSwar**(Student Editor)** Ms. TidkeAnushka Ms. RaneDiksha MsShirodeManashi Ms. Shrishti Mishra Ms. Rajas Soman Ms. AkshataLoya Ms. PragnaChatla Mr. Rohit Jain Ms. DikshaIngale Ms. MethaSamiksha Ms. Sana Subhedar Ms. AishwaryaKadu Ms. MihikaKhair Mr. Arindam Pal Mr. VigneshIyer Ms. Saumya Thakur Ms. SidhhiNasare **(Student Members)**

Fig. No. 4.6.2.2.:Department Technical Magazine“ ELETRONICS EXPLORER”

4.6.2.3 Magazine published by institute

College magazine **“Shivdarpan”** offers an opportunity to the students to explore their creativity of Communication Skills through Writing. It has a great educative value and encourages students to think and write. So it develops their Communication/Writing skills. Some of the best paintings and drawing are also published in it.

Table 4.6.2.3.1 Magazine published by Institute

Sr. No	Academic Year	Name of Publisher / Editor	Month and Year of Publication
1	2022-23	Dr. D. S. Bormane/ Mrs. S.J Pachouly	April 2023
2	2021-22	Dr. D. S. Bormane/ Mrs. S.J Pachouly	April 2022
3	2019-20	Dr. D. S. Bormane/ Mrs. S.J Pachouly	April 2020

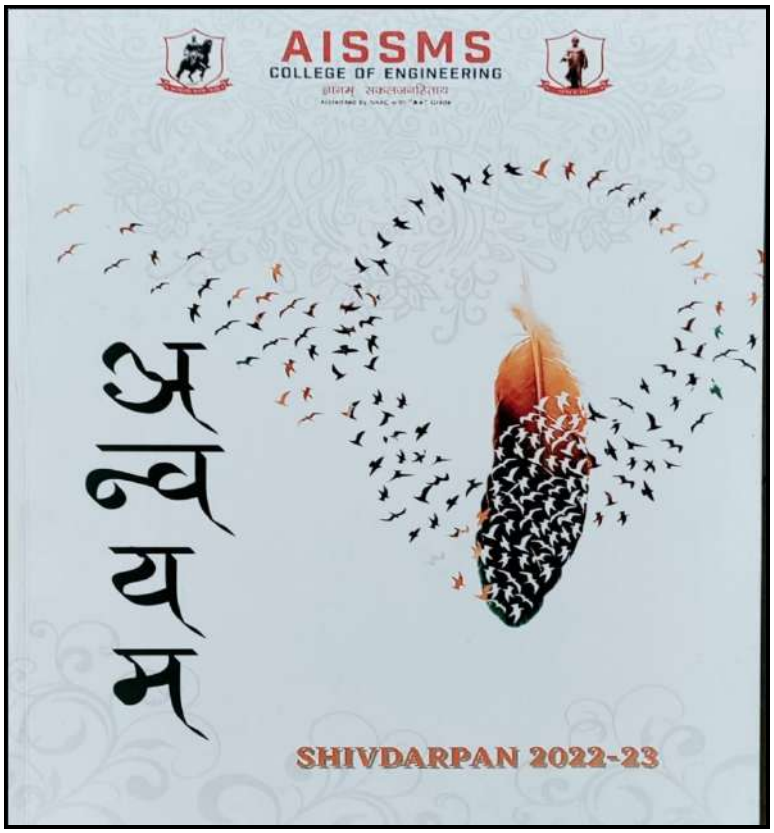


Fig. No. 4.6.2.3.1: Magazine 2022-23

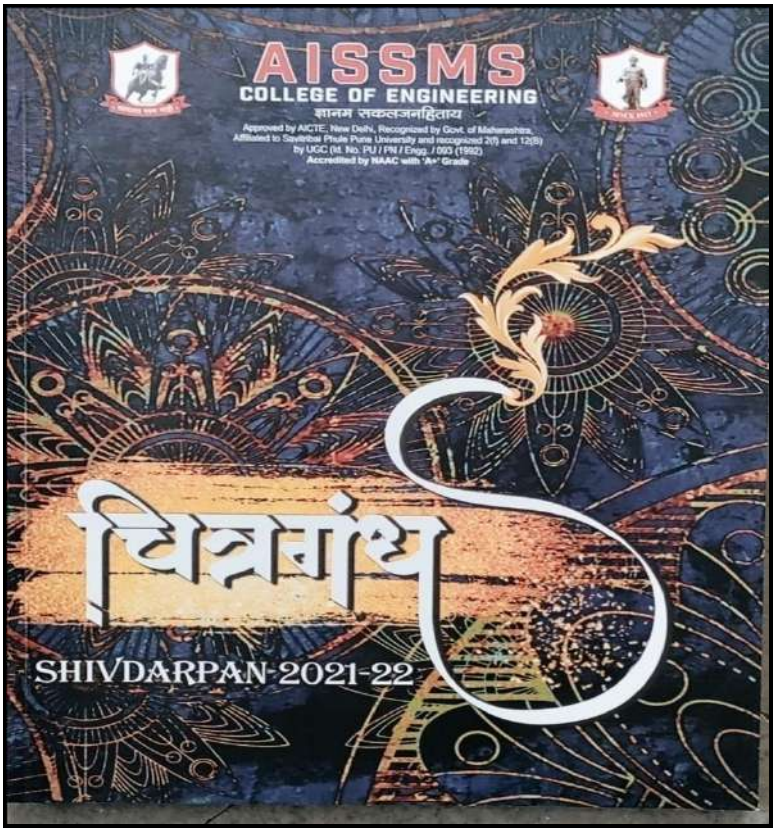


Fig. No. 4.6.2.3.2: Magazine 2021-22

4.6.3 Participation in inter-institute events by students of the program of study (10 M)

- In addition to academics, our students are also motivated to participate in various technical inter-college, State, National and International level competitions like Drone, Robotics, Paper Presentation, Workshops, and Project Competitions etc. College provides funding for participation in various competitions.
- Many co-curricular events and programs are conducted with a view to attain these attributes in our students. Various activities are organized in association with industries and the expertise available with the Institute is publicized in these events.
- College web site is regularly updated with the latest events taking place in the college.

The detailed list of students participated in inter-institute, State and National events are as follows:

(A) Participation of Students in various events

Table 4.6.3.1 Participation of Students in **2022-23**

Sr. No	Name	Date	Event	Conducted by	Rank/Prize	Event Outcome
Co-curricular: Participation						
1	Ruthvik Kamble	08.02.2023 to 09.03.2023	30 Days Master class on EV Design using MATLAB	Pantech e-Learning	Participation	EV-Design Skills
2	Omkar Mahajan	08.02.2023 to 09.03.2023	30 Days Master class on EV Design using MATLAB	Pantech e-Learning	Participation	EV-Design Skills
3	Pranav Birade	2022-23	Innovation Idea Competition EUREKA-22-23	Ashoka Education Foundation's Ashoka Center for Business	Participation	Innovation Skills
4	Shirish Nandkar					

				and Computer Studies (ACBCS), Nashik		
5	Zeeshan Shaikh	16.12.2022 to 18.12.2022	Rowboatics Techfest 2022	IIT Bombay	Participation	Robo Design Skills
6	Atharv Hapse					
7	Mubin Inamdar					
8	Shirish Nandakar					
9	Dewanshi Agarkar					
10	Shriyog Shindkar					
11	Shashiraj Sahani					
12	Prathamesh Vishwas					
13	Nikita Patil					
14	Pranav Birade					
15	Vaishnavi Sawle					
16	Ashutosh Pardeshi					
17	Niraj Sable					
18	Abhishek Jangam					
19	Satyam Walekar					
20	Ketaki Nanaware					
21	Rajwee Wable					
22	Anand Maratha					
23	Deepali Dalvi					
24	Atif Shikalgar					
25	Deepak Pathak					
26	Prachi Kshirsagar					
27	Samruddhi Jadhav					
28	Zeeshan Shaikh	16.12.2022 to 18.12.2022	Rowboatics Techfest 2022	IIT Bombay	Participation	Robo Design Skills
29	Rajwee Wable					
30	Atif Shikalgar					
31	Srushti Petkar	26.05.2023	Project Based Learning Contest 2023	JSPM Pune	Participation	Project Based Learning
32	Kajal Kumbhar					
33	Vaishnavi Sawale					
34	Pranav Birade					
35	Anand Maratha					
36	Mandar Kulkarni	26.05.2023	Project Based Learning Contest 2023	JSPM Pune	Participation	Project Based Learning
37	Jagdish Palaskar					
38	Dhakane Vijay					
39	Dnyaneshwar Ghodke					
40	Yash Honkalse	27.04.2023 to 28.04.2023	Project Competition ,National Level Technical Festival			
41	Palash Ravindra Dhande					
42	Deepak Pathak					

43	Shivam Kalane	31.05.2023	National Level Conference on Innovation in Engineering and Technology (NCIET 2023)	AISSMS COE	Participation	Innovation Skills
44	Ganesh Kadam					
45	Aditya Konkan					
46	Yash Honkalse	27.04.2023	National Level Project Competition 2023	BVPCOE for Women, Pune	Participation	Project Based Learning
47	Palash Ravindra Dhande					
48	Deepak Pathak					
49	Shivam Kalane	24.04.2023	Intercollegiate Project Competition 2023	MES College of Engineering, Pune	Participation	Project Based Learning
50	Aditya Konkan					
51	Ganesh Kadam					
52	Atif Shikalgar	17.02.2023 to 19.02.2023	Robosoccer 2023	IIT Hyderabad	Participation	Robo Design Skills
53	Shashiraj Sahani					
54	Zeeshan Shaikh					
Extra-curricular: Sports Participation						
	More Siddhi	2022-23	Kabaddi	SPPU, Pune City Zonal Committee	Participation	
	Nanaware Ketaki	2022-23	Chess	SPPU, Pune City Zonal Committee	Participation	
	Siddhi Nasare	2022-23	Table Tennis	SPPU, Pune City Zonal Committee	Participation	
	Mete Suraj	2022-23	Football	SPPU, Pune City Zonal Committee	Participation	
	Jadhav Tanishq	2022-23	Football	SPPU, Pune City Zonal Committee	Participation	
	Dongare Sudhansh	2022-23	Football	SPPU, Pune City Zonal Committee	Participation	
	Shindkar Shriyog	2022-23	Basketball	SPPU, Pune City	Participation	

				Zonal Committee		
	Dhamal Adwait	2022-23	Basketball	SPPU, Pune City Zonal Committee	Participation	
	Dhamal Adwait	2022-23	Chess	SPPU, Pune City Zonal Committee	Participation	
	Sahani Shashiraj	2022-23	Table Tennis	SPPU, Pune City Zonal Committee	Participation	
	Sahani Shashiraj	2022-23	Chess	SPPU, Pune City Zonal Committee	Participation	
	Bobade Sejal	2022-23	Kabaddi	SPPU, Pune City Zonal Committee	Participation	
	Jadhav Apoorva	2022-23	Volleyball	SPPU, Pune City Zonal Committee	Participation	
	Borhade Snehal	2022-23	Basketball	SPPU, Pune City Zonal Committee	Participation	
	Rathod Amol	2022-23	Volleyball	SPPU, Pune City Zonal Committee	Participation	
	Devanshi Agarkar	24.02.2023	Table Tennis	G H Raisoni College of Engineering and Management	Participation	

Table 4.6.3.2 Participation of Students in **2021-22**

Sr. No	Name	Date	Event	Conducted by	Rank/Prize	Event Outcome
Co-curricular: Participation						
1	Mr. ParthUmbarkar	25.11.2021	National Level Poster Presentation	JSPM's JSCOE, Pune	Participation	Poster Presentation Skills
2	Ms. DeepaliDalvi	18.01.2022	Regional Level Project Competition	VIIT, Pune	Participation	Project Design Skills
3	Mr. Neeraj Mahajan					
4	Mr. Vishal Bandage	18.01.2022	Regional Level Project Competition	VIIT, Pune	Participation	Project Design Skills
5	Mr. AniketAjur					
6	Mr. Abhishek Bande					
7	Mr. Arindam Pal	18.01.2022	Regional Level Project Competition	VIIT, Pune	Participation	Project Design Skills
8	Mr. PrathmeshBorle					
9	Ms. Pooja Kulkarni					
10	Mr. AshutoshPardeshi	March 2022	Robo Soccer	Parul University, Gujarat	Participation	Robotics Design Skills
11	Mr. Kiran Zure					
12	Mr. Satyam Walekar					
13	Mr. RuturajPatil					
14	Ms. AshwiniBalla					
15	Mr. YashRavangave					
16	Mr. Rishi Gandhi					
17	Mr.YashrajPatil					
18	Mr. RuturajPatil	04.03. 2022 to 06.03.2022	Technokick (FOOTPRINTS'22)	Faculty of Technology & Engineering The Maharaja Sayajirao University of Baroda	Participation	Robotics Design Skills
19	Mr. AshutoshPardeshi					
20	Mr. Kiran Zure					
21	Mr. Satyam Walekar					
22	Mr. AtharvaVyawhare					
23	Ms. AshwiniBallal					
24	Ms. AishwaryaPatil	02.05.2022	Regional Level	AISSMS's IOIT, Pune	Participation	Project Design
25	Mr. SaurabhJangam					

26	Mr. HimanshuAbhiraj		Project Competition			Skills
27	Mr. SuyashRajpure	20.05.2022	Paper Presentation	AISSMS COE, Pune	Participation	Paper Presentation Skills
28	Ms. MeghaTadge					
29	Ms. MonaliLondhe					
30	Mr. DaideepBhingarde	20.05.2022	Paper Presentation	AISSMS COE, Pune	Participation	Paper Presentation Skills
31	Ms. Siddhi Deshmukh					
32	Mr. DigvijayDhere					
33	Ms. Sana Subhedar	20.05.2022	Paper Presentation	AISSMS COE, Pune	Participation	Paper Presentation Skills
34	Ms. MiheekaKhair					
35	Ms. MamtaPatni					
36	Ms. AishwaryaKadu	2022	Toyathon, Physical Edition	Ministry of Education Innovation Cell &Galgotias University	Participation	Toycathon Design Skills
Extra-curricular: Participation						
37	Mr. PiyushChaudhari	25.11.2021	Career and Leadership Aid Program (CLAP)	IEEE Region 10 Young Professionals	Participation	Leadership Skills
38	Ms. ShaistaMujawar	25.12.2021	MaziWasundharaMitra	Govt. of Maharashtra Enviornmemnt and Climate Change Department	Certified MaziVasundhara Mitra	Environment and Climate Change Skills
Extra-curricular: Sports Participation						
39	Mr. Rohit There	22.12.2021	Table Tennis	MIT-WPU Summit 2021	Participation	Table Tennis Skills
40	Ms. Siddhi Nasare	13.03.2022	Table Tennis	ZEST'22 COEP	Participation	Table Tennis Skills
41	Mr. AniketJadhav	13.03.2022	Football	ZEST'22 COEP	Participation	Football Skills

Table 4.6.3.3 Participation of Students in **2020-21**

Sr. No.	Name	Date	Event	Conducted by	Rank/Prize/ Participation	Event Outcome
Co-curricular: Participation						
1	Mr. AkshayJadhav	08.06.2020	Webinar: Industry 4.0- Robotics & IOT	JSPMs Imperial COE & Research, Pune	Participation	Robotics and IOT Skills
2	Mr. PiyushChaudhari	2020-21	Dare to Dream Innovation Contest 2.0 organized by DRDO		Participation	Innovation Skills
3	Mr. PiyushChaudhari	2020-21	Internet of things using Arduino through Tinkercad		Participation	Technical Skills
4	Mr. Satyam Walekar	2020-21	Swayamsiddha Hackathon		Participation	Innovation Skills
5	PrachiKshirsagar	2020-21	Toyotathon 2021		Participation	Innovation Skills
6	DeepaliDalvi	2020-21	Toyotathon 2021		Participation	Innovation Skills
7	Ms. Saumya	2020-21	Maharashtra Health Hackathon		Participation	Social & Innovation Skills
8	Ms. DeepaliDalvi	2020-21	Maharashtra Health Hackathon		Participation	Social & Innovation Skills
9	Ms. ShrutiGadave	2020-21	Maharashtra Health Hackathon		Participation	Social & Innovation Skills
10	Mr. AmolRathod	2020-21	Maharashtra Health Hackathon		Participation	Social & Innovation Skills

11	Ms. Saumya	2020-21	Efficycle 2020 back team member		Participation	Design & Innovation Skills
12	Ms. Sapna	2020-21	Efficycle 2020 back team member		Participation	Design & Innovation Skills
13	Ms. Siddhi Nasare	2020-21	Efficycle 2020 back team member		Participation	Design & Innovation Skills
Extra-curricular: Participation						
14	Mr. KunalKadnor	01.10.2020 to 31.10.2020	Ecell Ambassador Program	Alcheringa IIT Guwahati	Participation	Leadership Skills

(B) Events within the State

The detailed list of students Prizes/Awards in Inter-Institute events are as follows:

Table 4.6.3.4 Prizes/awards receivedin Inter-Institute Events **within State** by Students in **2022-23**

Sr. No	Name	Date	Event	Conducted by	Rank/ Prize	Event Outcome (PO)
Co-Curricular: Awards						
1	Pranav Birade	19.02.2023	Alacrity-2023	AISSMS's IOIT, Pune	1st	Design Skills
2	Shashiraj Sahani	19.02.2023	Alacrity-2023	AISSMS's IOIT, Pune	1st	Design Skills
3	Atharv Hapse	19.02.2023	Alacrity-2023	AISSMS's IOIT, Pune	2nd	Design Skills
4	Zeeshan Shaikh	19.02.2023	Alacrity-2023	AISSMS's IOIT, Pune	2nd	Design Skills
Extra-curricular: Awards (Sports)						
5	Ms. Siddhi Nasare		Table Tennis	MIT-WPU Summit 2022	2nd	Table Tennis Skills

6	Ms. Siddhi Nasare	11.02.2023 to 13.02.2023	Table Tennis	ZEST'23 COEP	1st	Table Tennis Skills
7	Ms. Devanshi Agarkar	11.02.2023 to 13.02.2023	Table Tennis	ZEST'23 COEP	1st	Table Tennis Skills
8	Mr. Sudhansh Dongare	11.02.2023 to 13.02.2023	Football	ZEST'23 COEP	2nd	Football Skills
	Mr. Chauhan Deepesh					
	Mr. Suraj Mete					
9	Mr. Chauhan Deepesh	20.02.2023 to 24.02.2023	Football	MIT-WPU Summit 2023	2nd	Football Skills
	Mr. Tanishq Jadhav					
	Mr. Sudhansh Dongare					

(B) Events within the state

Table 4.6.3.5Prizes/awards receivedin Inter-Institute Events **within State** by Students in **2021-22**

Sr. No	**Name**	**Date**	**Event**	**Conducted by**	**Rank/ Prize**	**Event Outcome (PO)**
Extra-curricular: Awards (Cultural)						
1	Ms.MeghanaNagdive	17.12.2021 to 19.12.2021	So DUET Dance (Impressions 2021)	COEP	1st	Dance Skills
2	Ms.MeghanaNagdive	2022	Group Performance	HCL Foundation	1st	Dance Skills
3	Ms.MeghanaNagdive	2022	Contemporary Dance	HCL Foundation	1st	Dance Skills
4	Ms.MeghanaNagdive	2022	Prop Dance	HCL Foundation	1st	Dance Skills
5	Ms.MeghanaNagdive	2022	Direction	HCL Foundation	1st	Direction Skills
6	Ms.MeghanaNagdive	2022	Fight Sequence	HCL Foundation	1st	Dance Skills
7	Ms.MeghanaNagdi	2022	Group Dance	HCL	3rd	Dance Skills

	ve			Foundation		
8	Ms.MeghanaNagdive	2022	Best Choreography	HCL Foundation	3rd	Choreography Skills
9	Mr. Shyamkrushnan Nair	2022	Bass Guitar	HCL Foundation	1st	Guitar Skills
10	Ms.MeghanaNagdive	24.03.2022	Firodiya Karandak-2022	HCL Foundation	1st	Playback Skills
11	Ms. Sanjot Dhole					
12	Mr. Shyamkrushnan Nair					
13	Ms. NupurChandane					
14	Ms. Siddhi More					
15	Mr. SiddhantChaugule					
Extra-curricular: Awards(Sports)						
16	Ms. Siddhi Nasare	22.12.2021	Table Tennis	MIT-WPU Summit 2021	2nd	Table Tennis Skills
17	Ms. Siddhi Nasare	13.03.2022	Table Tennis	ZEST'22 COEP	2nd	Table Tennis Skills
18	Mr. MihirHambir	21.04.2022	Flame Football Cup-2022	Flame University, Pune	2nd	Football Skills
19	Mr. AniketJadhav	21.04.2022	Flame Football Cup-2022	Flame University, Pune	2nd	Football Skills
20	Mr. Rohit There	21.04.2022	Flame Football Cup-2022	Flame University, Pune	2nd	Football Skills
21	Ms. Suvidhan Mane	2021-2022	Javelin Throw	SPPU, Pune	3rd	Javelin Skills

Table 4.6.3.6 Prizes/awards receivedin Inter-Institute Events **within State** by Students in **2020-21**

Sr. No	**Name**	**Date**	**Event**	**Conducted by**	**Rank/ Prize**	**Event Outcome (PO)**
Co-curricular: Awards						
1	Mr. Arindam Pal	2020-21	Programming Language Quiz Competition	IEEE MRU Affinity Group	2nd	Programming Skills

				Computer Society		
2	Ms. Sana Subhedar	2020-21	Blogathon Competition	IEEE Pune Section	2nd	Communication Skills
3	Mr. DaideepBhingarde	14.01.2021	Top 1000 scores in NPTEL Embedded Systems Course	Texas Instruments	Received Rs.5000/- e-commerce voucher	Technical Skills
4	Mr. ParthUmbarkar	21.04.2021 To 25.04.2021	Resonance Racing BAJA Event :BAJA SAE India 2021	SAE India	Over all Rank: 4th All Terrain Performance: 3rd Suspension nd Traction: 4th Maneuvarability: 8th Gradability: 10th Overall Dynamics: 8th Overall Statics:14th	Dance Skills

(C) Events Outside the State

Table 4.6.3.7 Prizes/awards receivedin Inter-Institute Events **Outside the State** by Students in **2022-23**

Sr. No	**Name**	**Date**	**Event**	**Conducted by**	**Rank/ Prize**	**Event Outcome (PO)**
Co-Curricular: Awards						
1	Pranav Birade	17.02.2023 to 19.02.2023	elan&nVision 2023	IIT, Hyderabad	1st	Design Skills
2	AshutoshWaghavkar	17.02.2023 to 19.02.2023	elan&nVision 2023	IIT, Hyderabad	1st	Design Skills
3	RajweeWable	17.02.2023 to 19.02.2023	elan&nVision 2023	IIT, Hyderabad	1st	Design Skills
Extra-curricular: Awards **(Sports)**						

4	Ms. Siddhi Nasare	2022-23	Table Tennis	MIT-WPU Summit 2022	2nd	Table Tennis Skills
5	Ms. Siddhi Nasare	2022-23	Table Tennis	ZEST'23 COEP	2nd	Table Tennis Skills
6	Ms. DevanshiAgarkar	2022-23	Table Tennis	ZEST'23 COEP	2nd	Table Tennis Skills

AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE, New Delhi, Recognized by Government 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 | NBA - 6 UG Programmes

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION V

Faculty Information & Contribution

CRITERION V					Faculty Information & Contribution										200	
S No.	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research				Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No")	Nature of Association (Regular/Contract)
		Degree (highest degree)	*University*	*Year of attaining higher qualification*							*Research Paper Publications(number)*	*Ph.D. Guidance*	*Faculty Receiving Ph.D. during the Assessment Years*			
1	Dr D S Bormane	PhD	SRTMU Nanded	2003	2017	Principal, Professor	1/2/2017	1/2/1017	E&TC	Signal Processing, Speech Processing, Microwave, Data Science, Machine Learning	Conferences: IC:41 NC:16 Jpurnals:67	18	03		Y	Regular
1.	Dr S B Dhonde	PhD	Dr BAMU	2017	Aug 2022	Professor	5/8/2022	5/8/2022	E&TC	Signal Processing Computer Networking Sensor Networks	Conferences:5 IC:4 NC:1 Journals:44	04	--		Y	Regular
2	Dr D G Bhalke	***Ph.D***	NIT Warangal	2016	June 2017	Professor	1/6/2017	1/6/2017	E&TC	Signal Processing, Speech Processing, Microwave, Data Science, Machine Learning	Conferences:18 Journal:39	01	---		N 1/9/2022	Regular
3	Dr K B Chaudhari	PhD	SPPU	2021	July 2005	Assistant Professor	----	29/7/2005	E&TC	Audio Processing, Data Analytics, IOT, Signal Processing	Conference: 08 Journal: 07	---	---		Y	Regular
4	Mr S B Dhekale	ME	Pune University	2016	Since October 2010	Assistant Professor	----	6/10/2010	E&TC	C, C++, Java, Advanced Java, Data Structures	Conference: IC:01 NC:01 Journal: 05	---	---		Y	Regular
5	Mr N P Mawale	MTech	Pune University	2012	Since August 2006	Assistant Professor	---	22/8/2006	E&TC	Digital Systems, VLSI, Power Electronics	Conference:10 Journal :03	--	--		Y	Regular
6	Dr P P Vast	PhD	SPPU	2018	Since July 2007	Assistant Professor	---	21/7/2007	E&TC	Antenna Microcontrollers Embedded Systems	Conference:02 Journal:04	---	---		Y	Regular
7	Ms V D Nagrale	ME	BAMU	2012	Since September 2005	Assistant Professor	----	1/9/2005	E&TC	VLSI, Database management, CMOS Design, Microcontrollers	Conference: 02 Journal:07	---	---		Y	Regular

8	Dr V V Deshmukh	PhD	SPPU	2023	Since August 2006	Assistant Professor	----	18/8/2006	E&TC	Computer Network, Signal Processing,	Conference: 02 Journal:19	--	--	Y	Regular
9	Ms V S Navale	ME	Pune University	2007	Since December 2007	Assistant Professorr	----	19/12/2007	E&TC	Communication, Integrated Circuits, Power Electronics	Conference:03 Journal:6	--	---	Y	Regular
10	Ms Y P Lad	ME	Pune University	2016	Since January 2009	Assistant Professor	------	2/1/2009	E&TC	Communivation, Microwave, Fiber Optics	Conference: NC-01 Journal:01	---	---	Y	Regular
11	Mr V B Gawai	ME	BAMU	2011	Since June 2013	Assistant Professor	-----	6/6/2013	E&TC	PLC Automation, Embedded Systems, Design, Control System	Conference: NC-01 Journal:01	---	---	Y	Regular
12	Dr R R Itkarkar	PhD	VTU	2022	Since July 2017	Assistant Professor	-----	3/7/2017	E&TC	Mobile communication, Broadband Communication, Image Processing, Electromagnetics Engineering	Conference: NC-06 Journal:13	---	---	Y	Regular
13	Ms S A Takalkar	ME	SPPU	2016	Since June 2017	Assistant Professor	----	9/6/2017	E&TC	Network Security, Data Science	Conferences:3 Journal:4	---	---	N 31/5/2023	Regular
14	Ms P P Tayade	ME	SGBAU	2012	Since August 2021	Assistant Professor	---	30/8/2021	E&TC	Communication, Networking	Conference: NC-03 Journal:8	---	---	N 28/3/2023	Regular
15	Ms G D Salunke	ME	BAMU	2008	June 2013	Assistant Professor	---	24/7/2023	E&TC	Power Electronics & Wireless Sensor Network	Conferences: 4 Journal:41	--	---	Y	Regular
16	Mr Aslam Y Kazi	ME	BAMU	2005	1997	Assistant Professor	---	1/08/1997	E&TC	Biomedical Engineering	Journals: 4	---	---	Y	Regular

5.1	Student Faculty Ratio	20

		CAY	CAY	CAYm1
Year	**(2023-24)**	**(2022-23)**	**(2021-22)**	**(2020-21)**
U1.1- II Year (E&TC Engg)	66 (60+6)	66 (60+6)	66 (60+6)	66 (60+6)
U1.2- III Year(E&TC Engg)	66 (60+6)	66 (60+6)	66 (60+6)	66 (60+6)
U1.3 -Final Year(E&TC Engg)	66 (60+6)	66 (60+6)	66 (60+6)	66 (60+6)
UG 1(E&TC Engg)	**198**	**198**	**198**	**198**
(2019-20_2020_21_ME E&Tc_ VLSI & Embedded Systems) MEI (2021-22_IOT & Sensor Systems)				
P1.1	18	18	18	18
P1.2	18	18	18	18
PG1	**36**	**36**	**36**	**36**
…..				
Total No. of Students in the Department **(S)**		**S1**	**S2**	**S3**
	234	**234**	**234**	**234**
No. of Faculty in the Department **(F)**	**12**	**13**	**13**	**13**
Student Faculty Ratio (SFR)	**SFR= 19.5**	**SFR=18**	**SFR1 =18**	**SFR2= 18**
Average SFR		**SFR=(SFR1+SFR2+SFR3)/3**		**18**

5.1.1	Information about the regular and contractual faculty:	

Year	Total number of regular faculty in the department	Total number of contractual faculty in the department	Total Number of Faculty
AY 2023-24	12	0	12
AY 2022-23	13	0	13
AY2021-22	13	0	13
AY2020-21	13	0	13
AY2019-20	13	0	13

5.2	Faculty Cadre Proportion: (Program wise)	25

The reference Faculty cadre proportion is 1(F1): 2(F2): 6(F3)**Year**	**Professors**		**Associate Professors**		**Assistant Professors**	
	Required F1	**Available**	**Required F2**	**Available**	**Required F3**	**Available**
AY 2023-24	1	1	2	0	8	11
AY 2022-23	1	1	2	0	8	12
AY2021-22	1	1	2	0	8	12
AY2020-21	1	1	2	0	8	12
Average RF						

Cadre Ratio Marks =

$$\left(\left(\frac{AF1}{RF1}\right)+\left(\frac{AF2}{RF2}\times 0.6\right)+\left(\frac{AF3}{RF3}\times 0.4\right)\right)\times 12.5 = 20$$

5.3	Faculty Qualification: (Program wise)	25

Year	No. of Regular Faculty with PhD (X)	No. of Regular Faculty with ME/ M. Tech (Y)	No. of Regular Faculty required to comply 20:1 SFR	FQ = 2.5 x [(10X+4Y)/F)]
AY 2023-24	5	**7**	11	17.72
AY 2022-23	5	8	11	18.63
AY2021-22	3	10	11	15.90
AY2020-21	2	11	11	14.54
	16.36			

Faculty Qualification: 16.36 marks

5.4	Faculty Retention: (Program wise)	25

No. of retained faculty member in the year_2021_22:	**13 (100%)**
No. of retained faculty members in the year_2022_23	**12 (92%)**
No. of retained faculty member in the year_2023-24:	**11 (84.61%)**
Percentage of faculty retained during the period of assessment :	**96%**

5.5	Innovations by the Faculty in Teaching and Learning:	20

GOALS:

In order to improve students' learning experience aside from traditional classroom teaching, the department uses novel concepts and their subsequent execution by means of quantifiable programs. The department is continuously striving to:

- Enrich student learning by innovative practices.
- Develop students' comprehension and expertise of creative methods and strategies.
- Broaden students' perspective of emerging technologies and tools in academics, contemporary and social issues by innovative strategies.
- Motivate students to innovatively think, formulate and perform through different club activities

The innovative practices are made available on the Institute website for reference and review, the link for which is as below:

https://aissmscoe.com/electronics-engineering/innovative-practices-for-teaching-and-learning/

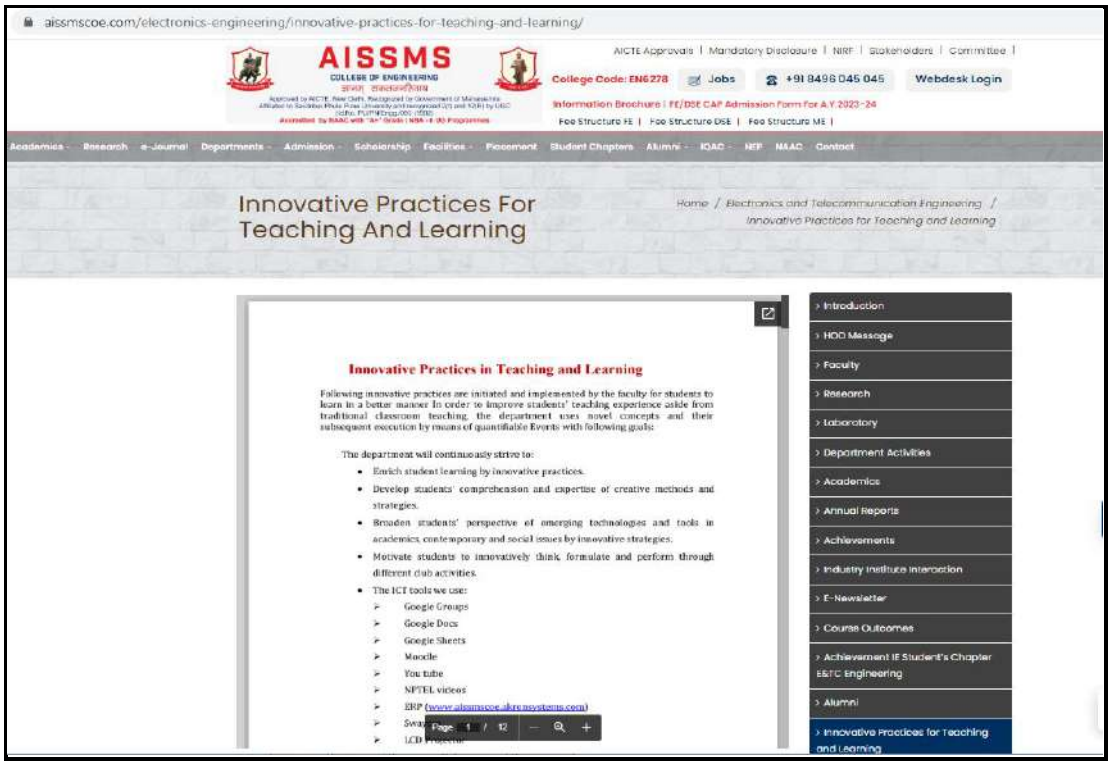


Figure 5.5.1: Innovative Practices floated on website

Table 5.5.1 Reflects various teaching learning methods implemented in the department.

Table 5.5.1 Teaching Learning Methods

Sr.No	Teaching Learning Methods	Activities Carried out
1	ICT based teaching learning	YouTube and NPTEL links
2	Digital social learning platform, Blended Learning	Google Groups, Google class rooms, blogs, WhatsApp
3	Physical social learning platform	IE students chapter - Workshop, Expert Lecture
4	Technical social program	Technical Social Program conducted by different department
5	Exposure of faculty to industry	Interaction of faculty with company guide, Faculty Industry Visit
6	Proactive teaching learning	Role Plays/ Educational Game/ Quiz
7	Projects	Sponsored projects, and Mini projects, Avishkar
8	Industry institute interaction	Industry Institute meets, MOUs, Industrial visits
9	New product design	Aviot-virtue, ET, certifications from RPA, Circuit Wizard etc
10	Competitions	Engineering Today, Participation in different technical events
11	Talks	Expert lectures
12	Membership of professional bodies	IE(I), IETE, IEEE, ISTE
13	Visit / participation	Seminars, Workshops, Conferences

1. ICT Based Teaching Learning:

- The ICT tools we use:

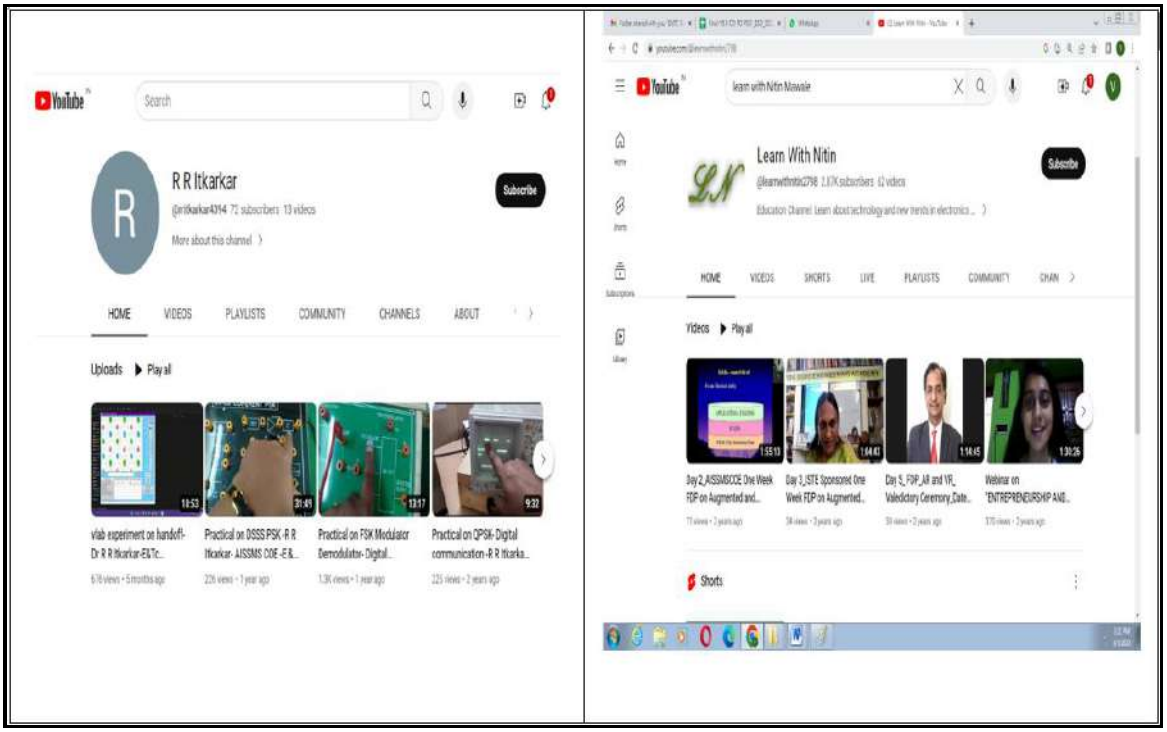
i. Google Groups/Docs/ Sheets/ Classroom
ii. NPTEL videos / Swayam
iii. Moodle
iv. You tube
v. ERP (www.aissmscoe.akronsystems.com)
vi. ICT enabled Classroom
vii. Microsoft Teams
viii. Kahoot
ix. Vlab

The work is available for peer review and critique on You Tube. The various innovative practices used in teaching and learning by faculty are listed below.

1. **E contents on YouTube (Active Learning)**
2. **Virtual labs (Experimental Learning)**
3. **Industry Visits (Collaborative Learning)**
4. **Student Chapter/Club Activities (Collaborative Learning)**
5. **Students Symposium (Active Learning, Experimental Learning, Collaborative Learning, Cooperative Learning through various Events)**
6. **Project-Based Learning (Collaborative Learning)**
7. **Cutting-edge initiative (Collaborative Learning)**
8. **Conference conduction (Cooperative Learning)**
9. **50: 10 teaching Module (Collaborative Learning)**
10. **Prerequisite Diagnosis Assessment (Active Learning)**

1. E contents on YouTube:

Faculty has also created their own YouTube Channels and Google drives wherein they upload study material relevant to their own subjects and also student activity related programs are uploaded on the channel. The links are shared with the students and the contents are openly accessed by all students.



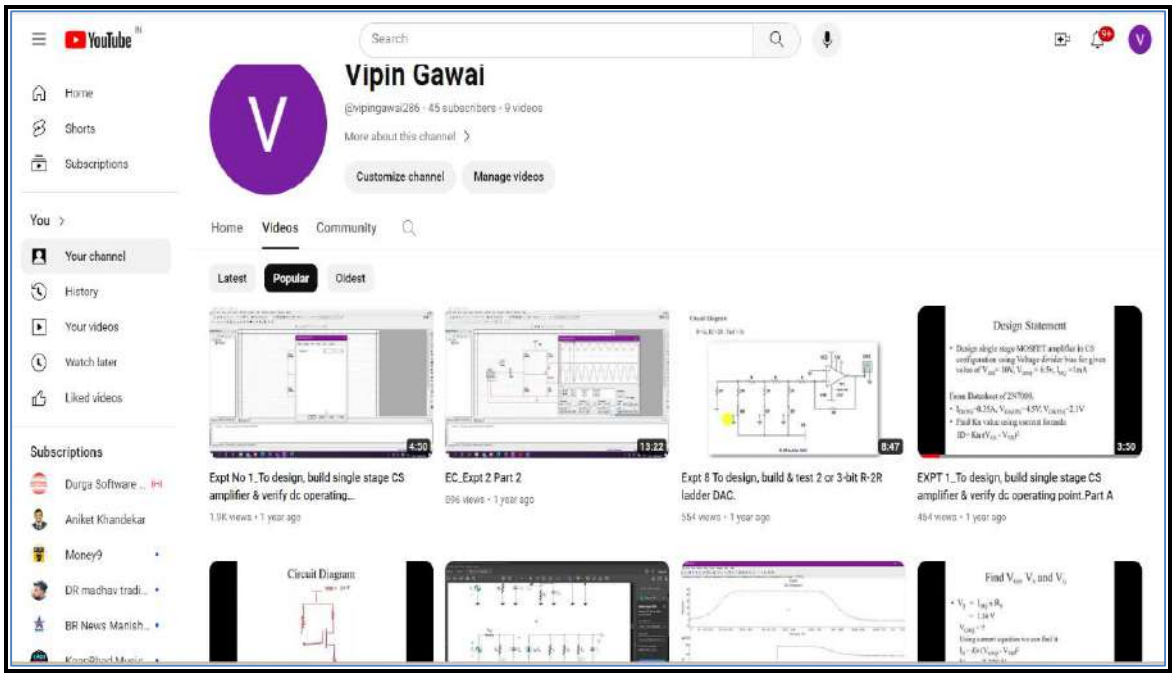


Figure 5.5.2: You tube Channel of Dr. R R Itkarkar, Mr N P Mawale and Mr. V B Gawai

Some sample video lectures can be accessed by using following links:

Links:

https://www.youtube.com/@learnwithnitin2798

https://www.youtube.com/channel/UCjEUwKuJ2MXU-0BL7-ZOSMw

https://www.youtube.com/channel/UCR4kTGWwnboFxFHIze0suYA

https://www.youtube.com/watch?v=BnTYVhwLTEs

https://www.youtube.com/watch?v=MW4iNusAj88

https://www.youtube.com/watch?v=xq7Tu_2yl1U

https://www.youtube.com/watch?v=bxpWxjVgNKs

https://www.youtube.com/watch?v=krUPiLDylFA

https://www.youtube.com/watch?v=zA3w2UZPF04

https://www.youtube.com/watch?v=B9wgK-bRZFU

https://www.youtube.com/watch?v=KdBS5WYaJs8

https://www.youtube.com/watch?v=tOELlMBt-1Y

https://www.youtube.com/watch?v=s6gq7WlETt4

https://www.youtube.com/watch?v=KdBS5WYaJs8&t=16s

https://www.youtube.com/watch?v=MfQ01h2mpyM

https://www.youtube.com/watch?v=oSecmBu1p-w

https://www.youtube.com/watch?v=nrUuNRB54fM

https://www.youtube.com/watch?v=9w0xb5Eo3_Q

https://www.youtube.com/watch?v=DFwy60YwgtM

https://www.youtube.com/watch?v=73PdCbpTQLE

https://www.youtube.com/watch?v=I7NNig5g-fc

https://www.youtube.com/watch?v=i0Xm_FxCtCU

https://www.youtube.com/watch?v=4LY7at2WTvA

https://www.youtube.com/watch?v=pt5dE9piSaQ

Outcome:

- This has helped students to learn and understand the course in a better and effective way.
- The students can learn at their own pace and at own convenience apart from classroom learning. This provides students, the opportunity for self-study.

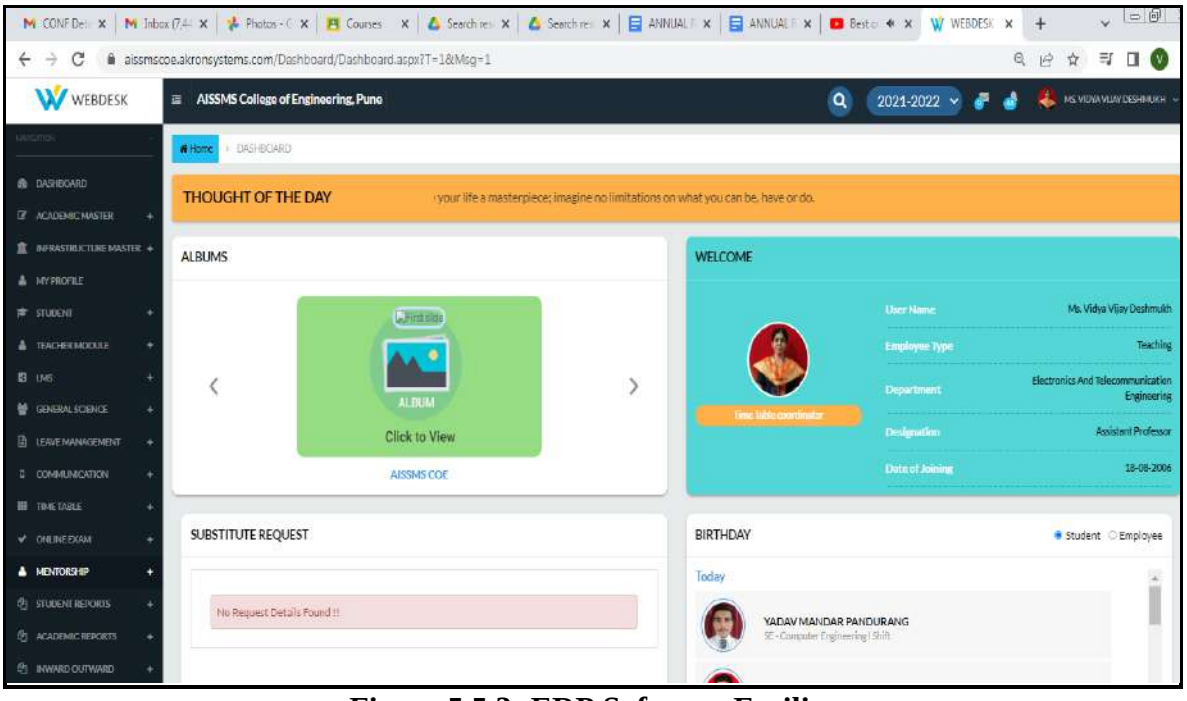


Figure 5.5.3: ERP Software Facility

- **Online teaching and learning resources on Microsoft Teams/ Google Classrooms:**

COVID 19 pandemic did not stop teaching Learning process at AISSMS COE Pune. Systematic efforts were put for initiating and implementation of teaching with online mode. In the initial phase of the lockdown, ZOOM platform were used for conduction of webinars, and different teaching learning activities. Other platforms like Google classroom, whats app, telegram were also used.

From academic year 2020-21, institute started Microsoft Team platform for online teaching. For individual faculty and student, MS team login credentials were generated. Individual faculty created team and channel for their assigned subject (Both theory and practical's) as per the class timetable. Unit wise tests and assignments were also conducted through MS team platform. Assessment of tests and assignments also was carried out through MS teams. Study material like subject notes, PPTs, e books, previous question papers were shared by faculty on MS team. Recorded videos on MS teams are also shared with students to compensate the academic loss of students because of power failure and internet connectivity failure. Overall, every effort was put by institute for smooth conduction of academics during this lockdown period.

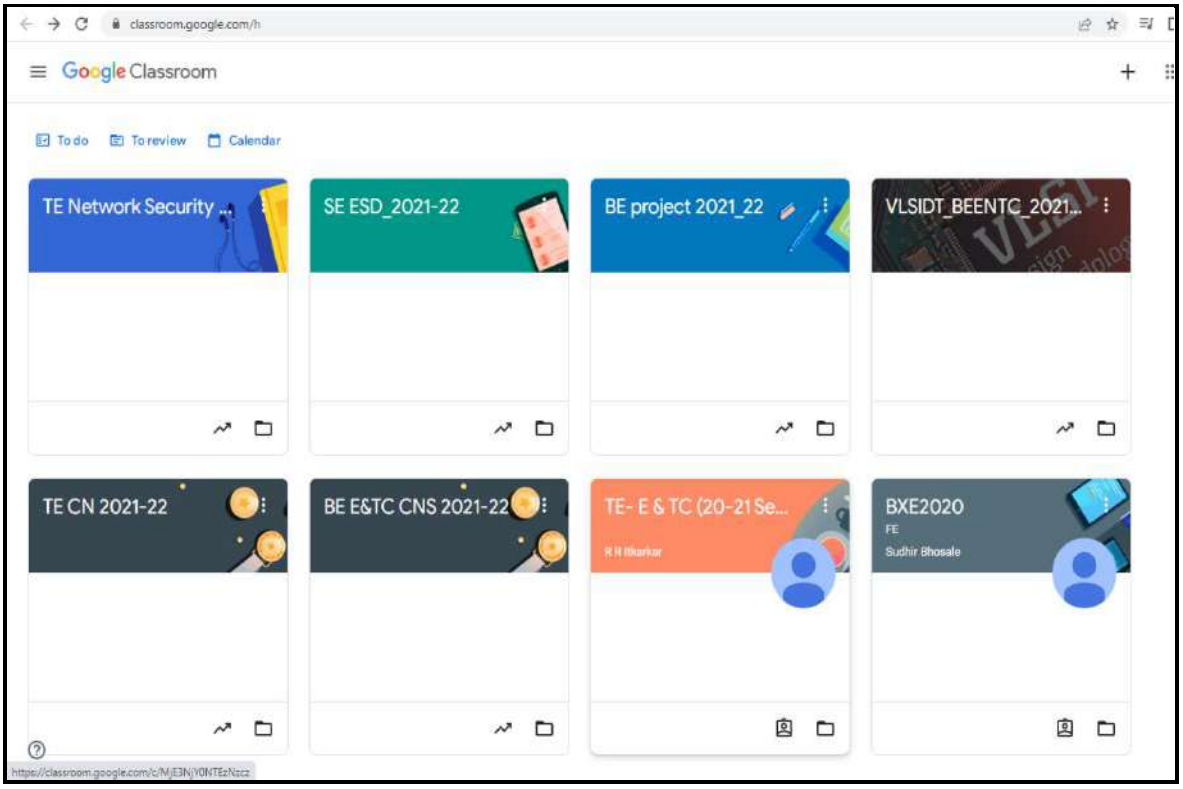


Figure 5.5.4: Google classrooms created by faculty members

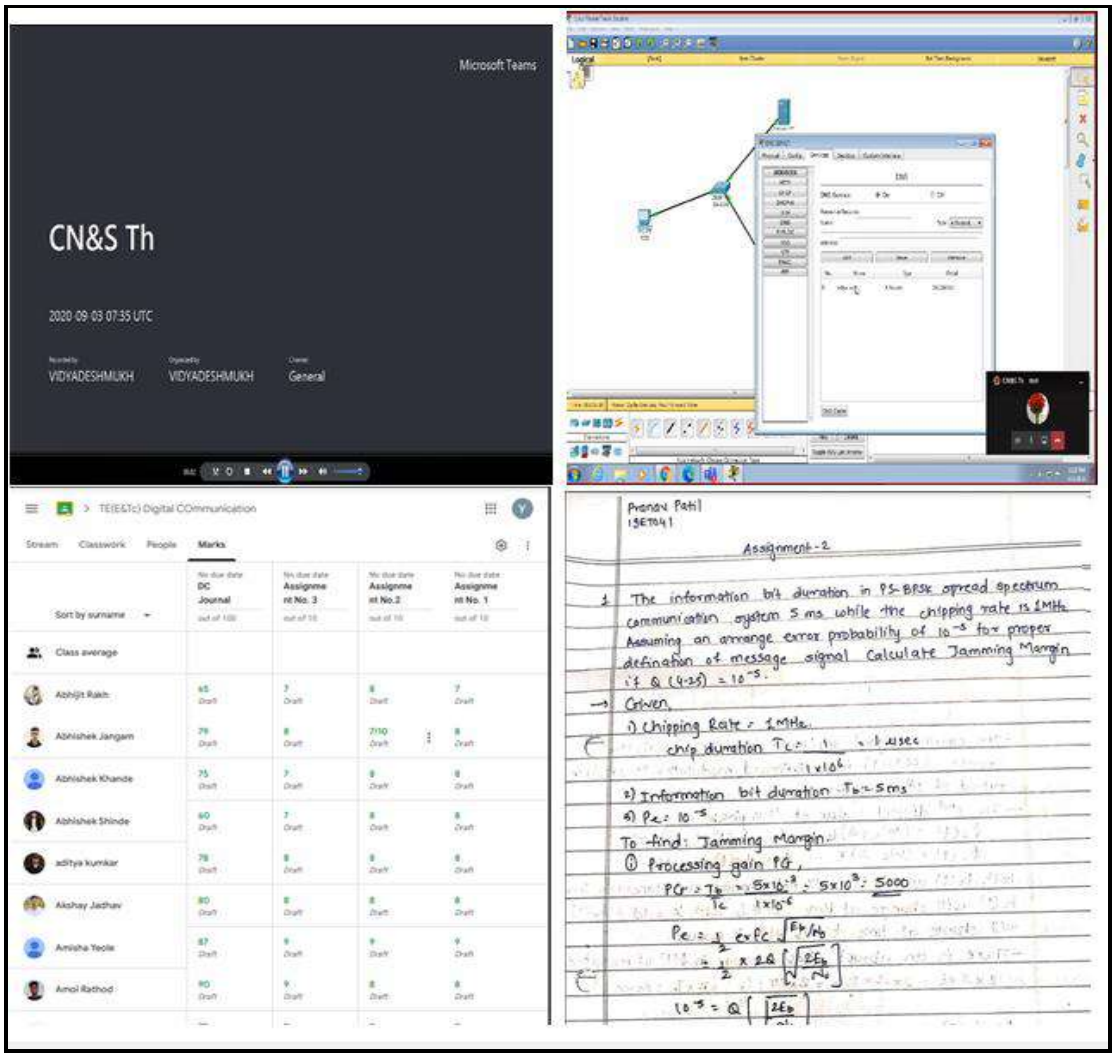


Figure 5.5.5: Use of Microsoft Team and google classroom Platform during Pandemic

Outcome:

- During the pandemic period, this methodology has helped students to interact and learn the subjects effectively.
- The platforms helped the students to get the study material, interact with the faculty, solve and submit assignments and enhance their thinking ability through the tests as well as quiz sessions conducted by almost every faculty member.

2. Virtual labs:

Vlab for various courses are conducted online on web browsers with the help of simulators. Such online facilities are called as virtual labs (http://www.vlab.co.in/), and are a part of an excellent innovative initiative taken by the MHRD of India.

Month	Workshops	Participants Trained	Usage
January	0	0	0
February	2	40	42
March	15	315	782
April	9	221	473
May	2	50	67
June	0	0	0
July	5	103	321
August	3	66	88
September	7	99	146
October	2	23	94
November	12	238	1000
Total	57	1145	2993

Figure 5.5.6: Usage of Virtual lab by AISSMS COE nodal center

Outcome:

- Remote-access to simulation-based Labs in various disciplines of Science and Engineering.
- Use of virtual labs inspires students to conduct experiments with their curiosity. This helps them in learning basic and advanced concepts through remote experimentation.
- It provides a complete Learning Management System around the Virtual Labs where the students/ teachers can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.

3. Industry Visits:

Students are exposed to latest developments through regular visits to industry. Faculties organize industrial visits under One Faculty One Industry Programme.

Figure 5.5.7: Industrial Visit

Outcome: It contributes to students' knowledge and opportunity for self-study

4. **Student Chapter/Club Activities:**

The department has four professional chapters, as listed below, which provide a good platform for the students to take active part in the various competitions, seminars and lectures arranged by the society. The activities help the students to showcase their talents in terms for team building, communications skills, team work, target work and overall development in professional activities. One faculty advisor is associated with each student chapter for mentoring, guidance and overall governance

Table 5.5.1: List of Students chapter and Club

Sr. No	Name of Students' Chapter	Number of Student Members
1	Daexus Data Science Club	35
2	IETE Students Forum	47
3	The Institution of Engineers (India), Students' Chapter	121
4	IEEE Student Branch	35
5	ISTE Student Branch	52
6	Electronics for You Skill Center	30
7	Drone and Robo Club	40

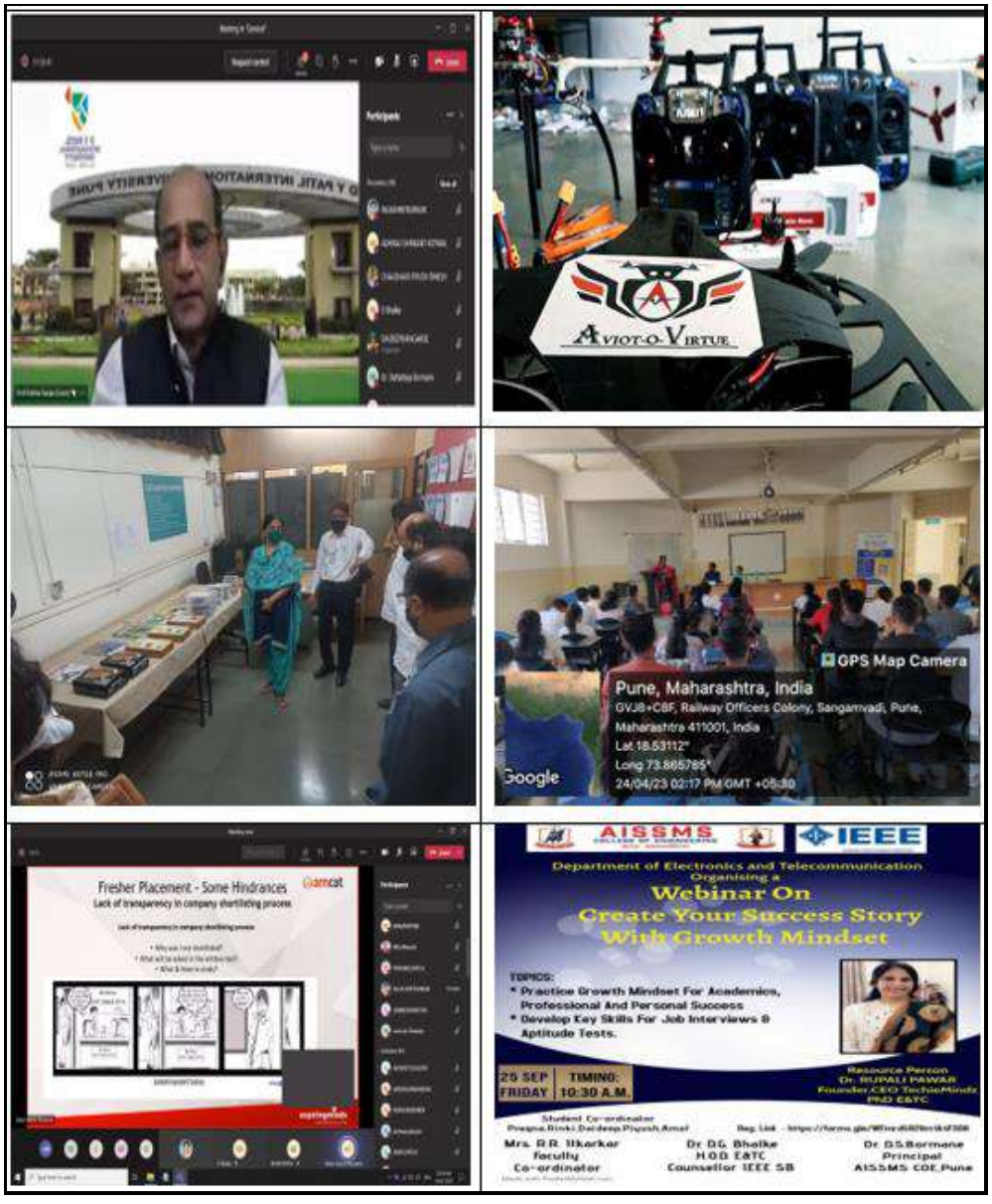


Figure 5.5.8: Activities for students under student chapter and student club

Outcome:

- Enrich students learning skills like communication, presentation, leadership etc**.**
- Dr. Amitabh Bhattacharyya Memorial Trophy to AISSMSCOE, E&TC Department (IEI Chapter) as Best Student Chapter Award Eight times
- IEEE Pune section best emerging branch award, student volunteer of the year awards, best student chairman award
- Avit-o-virtue club team won the prizes at IIT Hydrabad, Bits Pilani and may more

5. Students Symposium:

The department conducts **Engineering Today (Silicon Fusion),** an annual national level student symposium, in the month of September every year to encourage the students organizing and participating in various events to enhance their skills. The institute also conducts **science exhibition** where the projects of SE, TE and BE students are exhibited. The students invited from nearby schools to visit the science exhibition.

Figure 5.5.9: Engineering Today (Slicon Fusion) Event glimpses

Outcome: Improving skills so that they can participate in more events

The work can be reproducible and developed further by other scholars using following innovative techniques

6. Project-Based Learning

PBL has been introduced for SE students with the goal of motivating students to learn by working cooperatively in groups to solve a problem. PBL is a student-centered pedagogy that employs a dynamic classroom approach in which students are believed to gain a deeper understanding through active exploration of real-world challenges and problems. Students gain knowledge about a subject by investigating and responding to a complex question, challenge, or problem over time. It is an inquiry-based and active learning style. Problem- based learning will also alter the role of the teacher as a mentor in the learning process.

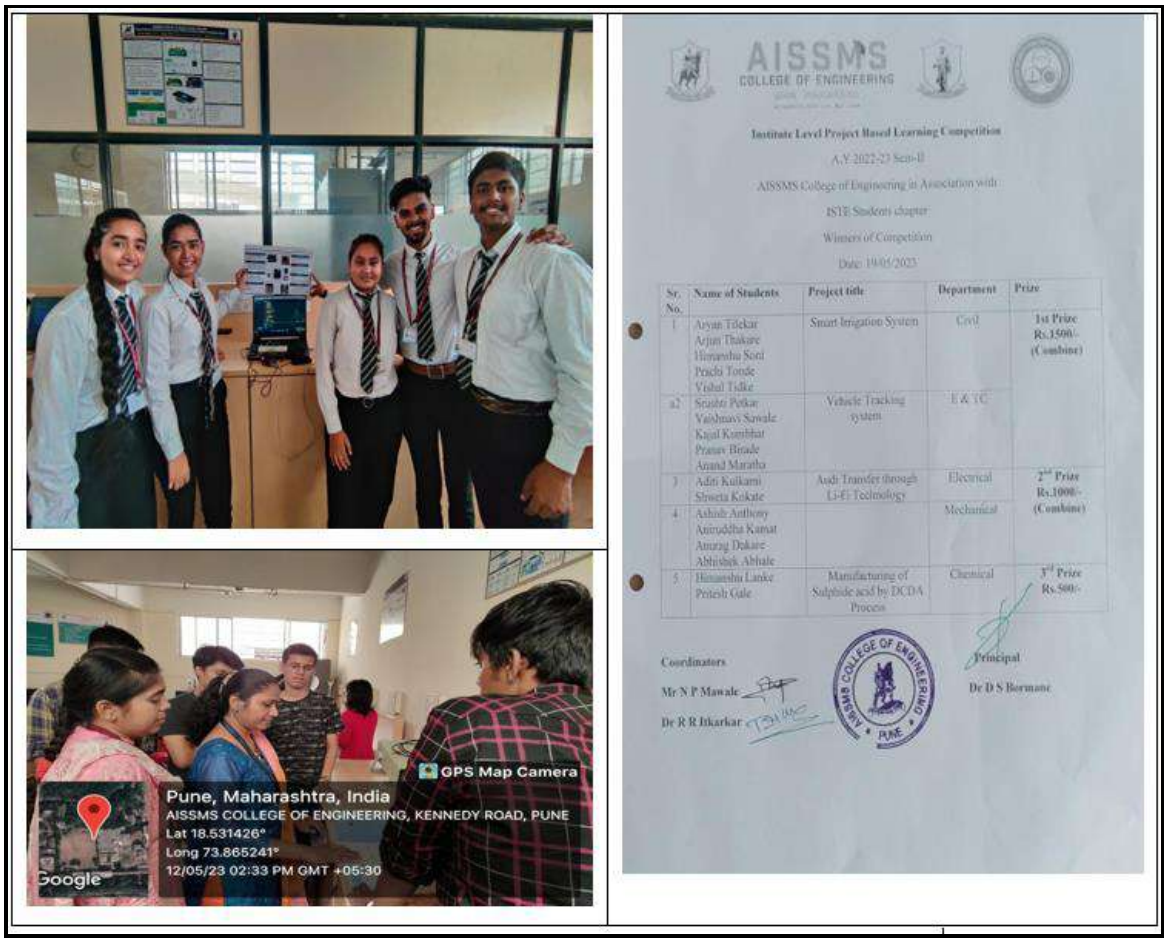


Figure 5.5.10: PBL Exhibition of SE Class AY: 2022-23

Outcome:

- PBL encourages students to develop a balanced, diverse approach to solving real-world problems, both on their own and in a team.
- Institute level PBL competition help students to provide interdisciplinary approach and solution to real world problems.

7. **Cutting-edge initiative:** Today's education system is rapidly evolving in order to introduce new teaching techniques and strategies that promote a culture of diversity and inclusion. Similarly, each teacher has a distinct teaching style. However, all teachers have the same goal: to instill a love of learning in their students. Department have a few Cutting- edge initiatives as given below that use modern technology.
   a. Avishkar
   b. Hackathon
   c. Unnat Bharat Abhiyan

Figure 5.5.11: Smart India Hackathon participation and Avishkar
State Level project completion Winner under guidance of Dr R R itkarkar

8. Conference :

International and national level conferences provide the platform to the researchers to publish their work and get suggestions form the experts.

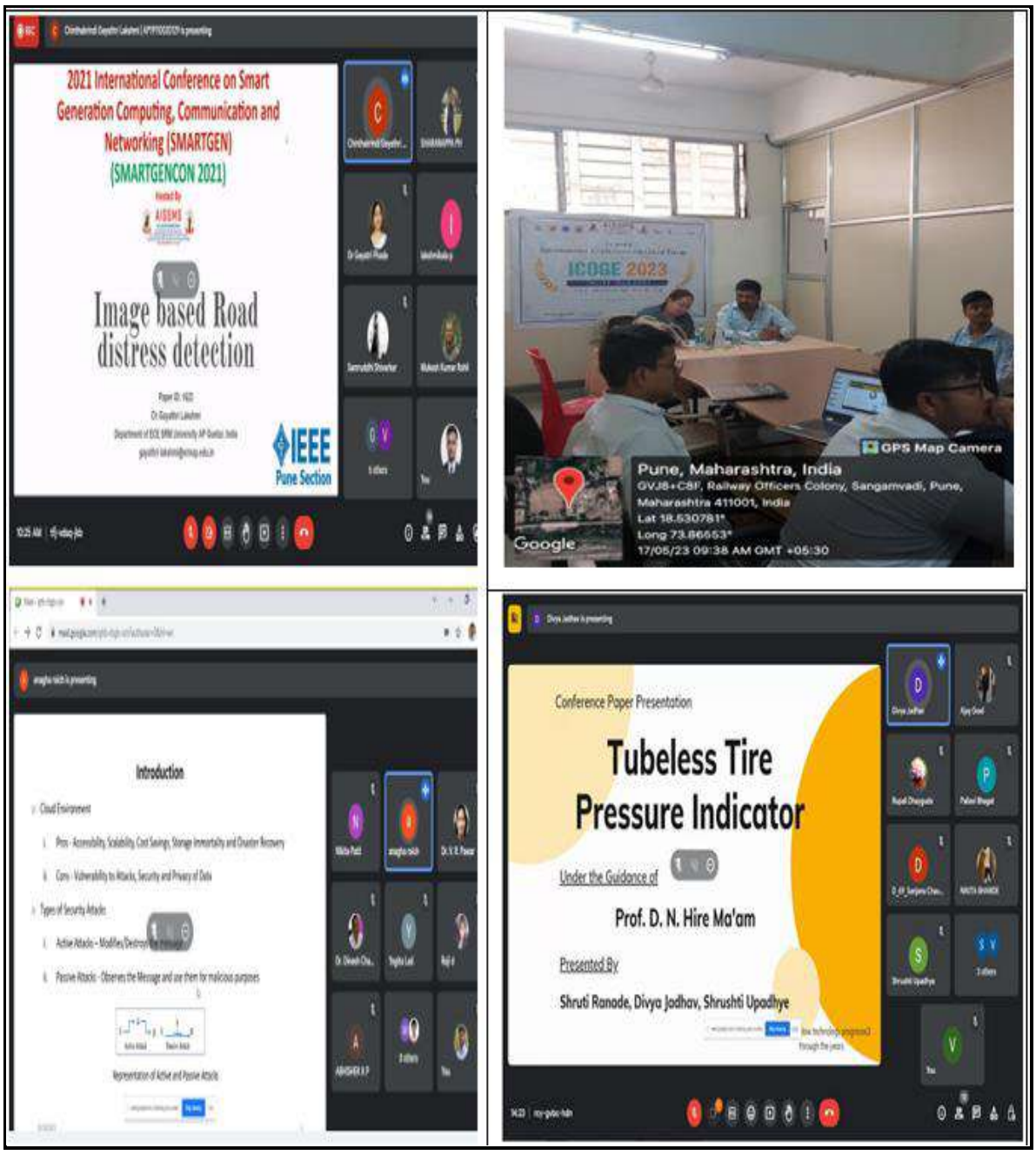


Figure 5.5.12: National & International Conferences conducted by E&TC Department.

9. 50:10 Teaching Module:

PO Mapped: PO 1, 2,3,4,9, 10

Objective: Objective of this activity is to build confidence, improving communication skills and instilling leadership qualities when they undergo this module.

Activity Details: In engineering courses, we have 60-minutes lecture. Of which every teacher dedicates 50 minutes for delivering the contents of the course syllabus which he/she is supposed to teach, and 10 minutes is reserved for self-learning of the student.

During this time, every student comes in front of the class and makes a presentation. This class presentation habit builds confidence and ability to speak in front of an audience, develops his communication skills and many other things which will be beneficial in making him confident in the long run.

Conception of the 50:10 Module:

The 50:10 module is a highly analysis and research-based module. It is formulated with the experience of the faculty teachers and the principal taking the initiative to add value to the education that AISSMS COE imparts. AISSMS is a premier college based in the heart of the city. Naturally it receives many students from the rural areas of Maharashtra. Over period of time it is observed that even though these students are very good technically, they failed in communicating to the recruiters that they are good enough. Addressing the issue, in the line of the human resource department, it is thought of making the 50:10 method as routine practice.

Outcome:

The above method has surely helped a lot as the student is undergoing self-learning. We had students who were hesitant to stand in front of the class. We managed to encourage them to present and they themselves understood the importance of public speaking and overcame the fear. Students admitted to us that this exercise has helped them overcome stage fear. Moreover, a great response at the campus interview can be visibly experienced.

Figure 5.5.13: Student summarizing the course lecture in 50:10 module

10. Prerequisite Test/ Diagnosis Assessment:

Faculty conducts the pre requisite test of their courses during first week of the start of the semester. This helps the faculty to do diagnosis assessment of the students in their courses.

Outcome:

Faculty can easily identify week and bright students in their courses with this test conduction.

- **Outcomes of Innovative Practices used by Faculty in Teaching and Learning:**

There are several potential outcomes of innovative practices used by teachers in teaching and learning:

1. **Increased student engagement**: Innovative practices often involve interactive and hands-on activities that capture students interest and make learning more enjoyable. This result in increased engagement and participation in the classroom.
2. **Improved critical thinking skills:** Innovative teaching methods encourage students to think critically, solve problems, and analyze information. This lead to the development of higher-order thinking skills and a deeper understanding of the subject matter.
3. **Enhanced creativity:** Innovative practices often provide opportunities for students to express their creativity and explore different perspectives. This helps foster a sense of curiosity, imagination, and originality among students.

4. **Personalized learning experiences:** Innovative practices tailored to meet the individual needs and learning styles of students. This result in personalized learning experiences that cater to each students strengths, interests, and motivations.
5. **Increased collaboration and communication skills:** Many innovative teaching practices emphasize collaboration and teamwork. These help students to develop effective communication skills, as well as the ability to work well with others and contribute to group discussions.
6. **Long-lasting knowledge retention:** Innovative practices that involve active learning and real-world applications help students to retain knowledge for a longer period of time. By connecting new information to practical experiences, students are more likely to remember and understand the concepts being taught.
7. **Preparation for the future:** Innovative practices often incorporate the use of technology, which is becoming increasingly important in todays society. By integrating technology into the classroom, teachers can help prepare students for the future workforce and equip them with the necessary skills for success in the digital age.
8. **Learning Outcomes:** Innovative teaching practices have the potential to enhance learning outcomes for students. By incorporating new and diverse instructional strategies, such as problem-based learning, flipped classrooms, or project-based assessments, educators can facilitate deeper understanding, critical thinking, and the development of practical skills in students.
9. **Motivation and Interest:** Innovative practices often help to stimulate students motivation and interest in the subject matter. By embracing new technologies, or real-life applications, faculty create a more vibrant and captivating learning environment. This increased interest lead to improved academic performance and a passion for lifelong learning.
10. **Faculty Development:** Implementing innovative teaching practices requires faculty to continuously update their knowledge and skills. It promotes professional growth and development, encouraging faculty members to explore new teaching methods, experiment with different instructional tools, and collaborate with colleagues. This ongoing professional development contributes to a positive academic culture in institution.
11. **Institutional Reputation:** By adopting innovative practices in teaching and learning, educational institutions enhance their reputation and attract students, faculty, and funding. Institute is seen as leaders in the education field and benefited from increased enrollment, improved rankings, and positive perception among stakeholders.

12. **Student Success and Well-being:** Innovative practices also have a positive impact on student success and well-being. By incorporating strategies that address different learning styles, assist diverse student populations, and promote inclusivity, faculty creates a supportive and inclusive learning environment. This contributes to improved student retention rates, satisfaction, and mental health.
13. **Research and Innovation:** Innovative teaching practices often go hand in hand with research and innovation in education. Faculty who embrace innovative practices are more likely to engage in educational research, explores new methodologies, and contributes to the advancement of knowledge in their field.

5.6	Faculty as participants in Faculty Development/ Training activities/ STTP : (Programwise)	15

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty development program: 3 Points

		Max 5 per faculty				
Sr No	**Name of the Faculty**	**2023-24**	**2022-23**	**(2021-22)**	**(2020-21)**	**(2019-20)**
1	Dr S B Dhonde	5	5	-	-	-
2	Ms K B Chaudhari	5	5	5	5	5
3	Mr S B Dhekale	3	5	5	5	5
4	Dr P P Vast	3	5	5	5	5
5	Mr N P Mawale	3	5	5	5	5
6	Ms V D Nagrale	5	5	5	5	5
7	Ms V V Deshmukh	3	5	5	5	5
8	Ms V S Navale	5	5	5	5	5
9	Ms Y P Lad	5	5	5	5	5
10	Mr V B Gawai	3	5	5	5	5
11	Ms R R Itkarkar	5	5	5	5	5
12	Ms G D Salunke	5	-	-	-	-
13	Dr D G Bhalke	-	-	5	5	5
14	Ms S A Takalkar	-	5	5	5	5
15	Ms P P Tayade	-	5	5	-	-
16	Mr A Y Kazi	-	-	-	5	5
	Sum	**50**	**65**	**65**	**65**	**65**
	RF= Number of Faculty required to comply with 20:1 Student- Faculty ratio	**11**	**11**	**11**	**11**	**11**
	Assessment = 3 × (Sum/0.5RF)	**27.27**	**35.45**	**35.45**	**35.45**	**35.45**
	Average assessment over three years = **35.45 Marks** **Max Marks = 15 Marks**					

5.7	Research & Development:	30

5.7.1	Academic Research:	10

Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)

PhD guided /PhD awarded during the assessment period while working in the institute (4)

Research papers in referred/ SCI indexed journals:

Sr. No.	Name of the Staff	(2023-24)	(2022-23)	(2021-22)	(2020-21)
1	Dr D S Bormane	03	3	2	6
2	Dr S B Dhonde	03	2	0	0
3	Dr D G Bhalke	-	0	0	3
4	Ms K B Chaudhari	0	1	0	1
5	Mr S B Dhekale	0	1	0	1
6	Dr P P Vast	2	2	0	1
7	Mr N P Mawale	1	0	0	1
8	Ms V D Nagrale	0	2	0	0
9	Ms V V Deshmukh	2	0	1	3
10	Ms V S Navale	1	0	0	0
11	Ms Y P Lad	1	0	0	0
12	Mr V B Gawai	1	2	0	1
13	Ms R R Itkarkar	2	2	1	2
14	Ms Smita Takalkar	-	0	0	0
15	Ms P Tayade	-	0	0	0
16	Mr A Y Kazi	-	0	0	0
17	Ms G D Salunke	2	-	-	-
	Total	**18**	**15**	**4**	**19**

List of Publications: (Academic Year 2023-24) (No: 18)

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1. 4G based SAR analysis for anatomically based human head model using mobile phone antenna	Dr D S Bormane	Multidisciplinary Science Journal	October 2023	**(ISSN 2318-1265)** Vol:6, Issue 4 (2024) e2024053	https://doi.org/10.31893/multiscience.2024053
2. Multi-microphone Speech Dereverberation and Noise Reduction using Long Short –Term Memory Networks	Dr D S Bormane	International journal of Intelligent systems and applications in Engineering	November 2023	ISSN: 2147-6799 Vol:12, No:2	https://ijisae.org/index.php/IJISAE/article/view/4196/2838
3. Design and Development of a Real Time Hand Gesture Recognition System for Indian Sign Language using Tensor Flow	Dr R R Itkarkar, Dr D S Bormane	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 207-212	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
4. Survey of Automatic Dysarthric Speech Recognition	Dr S B Dhonde	International Journal on Recent & Innovation Trends in Computing and Communication	October 2023	ISSN: 2321-8169 Vol: 11, Issue:10	https://ijritcc.org/index.php/ijritcc/article/view/8622/6733
5. Underwater Communication using LiFi Technology	Dr S B Dhonde	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 140-144	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
6. Elevator Control using Voice Command	Dr S B Dhonde	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%2

				Issue, Page: 149-153	0web.pdf
7. Conditional Reiterative High Fidelity GAN inversion for image editing	Dr P P Vast	Elsevier Journal of Pattern Recognition	October 2023	Print ISSN: 0031-3203 Online ISSN: 1873-5142 Volume 147, March 2024, 110068	https://ui.adsabs.harvard.edu/link_gateway/2024PatRe.14710068D/doi:10.1016/j.patcog.2023.110068
8. Design and Development of Microstrip Antenna for Noninvasive Glucose Testing	Dr P P Vast	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 171-176	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
9. Smart Cylinder Trolley for Home Safety	Mr N P Mawale	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 165-170	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
10. Smart Chef: Automated Cooking System with Robotic Arm	Dr V V Deshmukh	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 195-200	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
11. Breaking Languag Barriers: Transformer Based Sentence Translation	Dr V V Deshmukh	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 200-206	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
12. Text to Image AI Model using Deep Learning	Ms V S Navale	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 187-194	http://www.isteonline.in/Datafiles/cms//Special%20issue%20July%202023%20web.pdf
13. Design and	Ms Y P Lad	The Indian	July 2023	ISSN:	http://www.isteonli

Development of IoT Based Sanitary Napkin Vending Machine		Journal of Technical Education		0971-3034 Vol: 46 Special Issue, Page: 153-159	ne.in/Datafiles/cms/ /Special%20issue%20July%202023%20web.pdf
14. The Proctor – A Robot for Crop Disease Detection using IoRT and YOLO	Mr V B Gawai	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 153-159	http://www.isteonline.in/Datafiles/cms/ /Special%20issue%20July%202023%20web.pdf
15. Autonomous Medical Assistive Robot	Dr R R Itkarkar	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 144-149	http://www.isteonline.in/Datafiles/cms/ /Special%20issue%20July%202023%20web.pdf
16. Design and Development of a Real Time Hand Gesture Recognition System for Indian Sign Language using Tensor Flow	Dr R R Itkarkar, Dr D S Bormane	The Indian Journal of Technical Education	July 2023	ISSN: 0971-3034 Vol: 46 Special Issue, Page: 207-212	http://www.isteonline.in/Datafiles/cms/ /Special%20issue%20July%202023%20web.pdf
17.Design Framework, Analysis and Modeling for WSN Health Monitoring Systems	Ms G D Salunke	**International Journal of Membrene Science and Technology**	2023	ISSN: 2410-1869 Vol: 10, No:02, PP:3164-3173	https://doi.org/10.15379/ijmst.v10i2.3082
18.Lumbar Scoliosis Analysis Using Deep Learning Based Technique	Ms G D Salunke	Journal of Advanced Zoology	2023	ISSN: 0253-7214 Vol: 44, Issue: S-2, Page:3193-3201	https://doi.org/10.53555/jaz.v44iS2.1578

List of Publications: (Academic Year 2022-23) (No:15)

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1.Early Diagnosis of Obstructive Airway Disease Using EMG Technique. sms [Internet]. 23Jan.2023 [cited 16Jul.2023];14(Spl-3):372-8.	Kanwade AB, Magar PK, Bairagi VK, Thune NN, Itkarka R, Uke N, Bormane D	SAMRIDDHI A Journal of Physical Sciences, Engineering & Technology	2022	ISSN(P): 2229-7111 ISSN(O): 2454-5767 Vol:14, Spl :3 Pages:372-378	https://smsjournals.com/index.php/SAMRIDDHI/article/view/3033
2.Electromyography Signal Analysis for the Detection of TMJ Disorder Using Classification Models and Multivariate Analysis, Revue d'Intelligence Artificielle	Roopa B. Kakkeri , Dattatraya S. Bormane ,	Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 1 (pp.51-61)	2022	ISSN: 0992-499X (print); 1958-5748 (online) Vol. 36, No. 3, June, 2022, pp. 503-508	http://iieta.org/journals/ria DOI:10.1007/978-3-030-69921-5_6
3.SAR Analysis Using a Dipole Antenna in a Non-layered and Multi-layered Human Head Model ,	Amol Sonawane, D S Bormane	International Journal on Recent and Innovation Trends in Computing and Communication: Vol. 10 No. 1s (2022): Special Issue on Enhancement and Innovations in Exploring Engineering	2022	ISSN: 2321-8169 (Online) *10*(1s), 225–231.	https://ijritcc.org/index.php/ijritcc/article/view/5829
4.Rapid Manufacturing Ventilator	Dr S B Dhonde	IRJIET	2022	ISSN: 2581-3048	https://www.proquest.com/openview/d9fb7c19f8dc17c441133f44485b491f/1?pq-origsite=gscholar&cbl=5314840
5.A Novel Approach to Cervical Cancer Detection Using Hybrid Stacked Ensemble Models and Feature	Pratiksha D. Nandanwar1* and Dr. Somnath B. Dhonde2	International Journal of Electrical and Electronics Research	2023	e-ISSN: 2347-470X Volume 11, Issue 2 | Pages 582-	https://ijeer.forexjournal.co.in/papers-pdf/ijeer-110246.pdf

Selection		(IJEER)		589 |	
6.Network Security in Cloud and Big Data Computing using AI	Dr. Amita Aniruddhe Shinde, Dr. Varsha Degaonkar, Dr. Prachi Prashant Vast	*Computer Integrated Manufacturing Systems*	2022	1303-5150 Vol:28 , No: 12	http://cims-journal.com/index.php/CN/article/view/411
7.Observation of an Uncertainty Estimation in Deep Learning	Dr. Prachi Vast	Neuro Quantology	2022	eISSN: 1303-5150 Volume 20 | Issue 16 |Page 5613-5621|	https://www.neuroquantology.com/ doi:10.48047/NQ.2022.20.16.NQ880571
8.Survey Paper on Extraction of 3D image Data for Detecting Chest Diseases	Mr.V.B.Gawai	JOURNAL OF OPTOELECTRONICS LASER	2022	ISSN:1005-0086 Volume 41 Issue 8, 2022	http://gdzjg.org/index.php/JOL/article/view/905
9.Evaluation of Success Factors in Professional Business Incubation	Mr.V.B.Gawai	JOURNAL OF OPTOELECTRONICS LASER	2022	ISSN: 1005-0086 Volume 41 Issue 8, 2022	http://gdzjg.org/index.php/JOL/article/view/899
10..Early Diagnosis of Obstructive Airway Disease Using EMG Technique. sms [Internet]. 23Jan.2023 [cited 16Jul.2023];14(Spl-3):372-8.	Dr R R Itkarkar	SAMRIDDHI A Journal of Physical Sciences, Engineering & Technology	2022	ISSN(P): 2229-7111 ISSN(O): 2454-5767 Vol:14, Spl :3 Pages:372-378	https://smsjournals.com/index.php/SAMRIDDHI/article/view/3033
11.Recognition of Emotions Based on Facial Expressions Using Bidirectional Long-Short-Term Memory and Machine Learning Techniques	Mr S B Dhekale	2023 International Conference on Communication System, Computing and IT Applications (CSCITA)	2023	Electronic ISBN: 978-1-6654-5987-7	https://ieeexplore.ieee.org/document/10105040/authors#authors **DOI:** 10.1109/CSCITA55725.2023.10105040
12.Detection And Diagnosis Of Covid-19 Using Pneumonia	Dr R R Itkarkar	SAMRIDDHI A Journal of Physical Sciences, Engineering & Technology	2023	Print ISSN : 2229-7111 Online ISSN : 2454-5767	https://smsjournals.com/index.php/SAMRIDDHI/article/view/3036

				Volume 14, Special Issue 3, 2022	
13.Wireless EV Charging Robot	Ms V D Nagrale	International Research Journal of Innovations in Engineering and Technology (IRJIET)	2023	ISSN (online): 2581-3048 Volume 7, Issue 5, pp 325-329, May-2023	https://doi.org/10.47001/IRJIET/2023.705047
14..Ensemble of Learner for Network Intrusion Detection System	Ms V D Nagrale	Journal of Network Security Computer Networks	2023	e-ISSN: 2581-639X Volume-9, Issue-1 (January-April, 2023)	https://doi.org/10.46610/JONSCN.2023.v09i01.004
15. Remote Sensing Based Crop Monitoring System	Dr K B Chaudhari	2022 IEEE Region 10 Symposium (TENSYMP)	2022	https://doi.org/10.1109/TENSYMP54529.2022.9864416	https://ieeexplore.ieee.org/document/9864416

List of Publications: (Academic Year 2021-22) (No:4)

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1."Investigational Outcomes of Normal and Diabetic Human Volunteers using Microwave based Non-invasive Blood Glucometer"	Vidya Deshmukh, Suvarna Chorage	International Journal of Emerging Technology and Advanced Engineering (Scopus indexed)	June -2022	ISSN 2250-2459 Vol:12 Issue:6	https://ijetae.com/files/Volume12Issue6/IJETAE_0622_22.pdf
2."Detection of Breast Cancer Using Hybrid Feature Selection And Bayesian Optimization",	Dr.S.M.Kulkarn, Dr.D.S.Bormane, Dr.S.L.Nalbalwar,	Science and Technology Publishing (SCI & TECH)	2021	ISSN: 2632-1017 Vol. 5 Issue 7, July – 2021.	http://scitechpub.org/index.php/vol-5-issue-7-july-2021/
3. "Design and Analysis of Half Wave Dipole Antenna for SAR Measurement", ,	Dr. D. S. Bormane, Amol D Sonawane	Journal of Cardiovascular Disease Research	2021	ISSN Print -0975-3583, Online -0976-2833, Volume 12, Issue 3,	https://www.jcdronline.org/paper.php?slug=design-and-analysis-of-half-wave-dipole-antenna-for-sar-measurement

				Page 844-853, July 11, 2021,	DOI: 10.31838/jcdr.2021.12.03.112
4." Detection And Diagnosis Of Covid-19 Using Pnuemonia"	Ms R R Itkarkar	SAMRIDDHI	2021	ISSN:2229-7111	https://smsjournals.com/index.php/SAMRIDDHI/article/view/3036

List of Publications: (Academic Year 2020-21) (No:19)

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1.Surface Electromyography in Detection of Temporomandibular Joint Disorders	Mrs. Roopa Kakerri, Dr. D S Bormane	International Journal of Advances in Science Engineering and Technology	Jan.-2020	2321 –9009	https://doi.org/10.1016/j.matpr.2021.07.375
2.Square Operation Implementation On Reconfigurable Hardware Logic To Attain High Speed, Area Optimization And Low Power Consumption	Avinash Patil,S. C. Patil,D. S. Bormane, Sushma Wadar	Journal of Mechanics of Continua and Mathematical Sciences	May-20	2454-7190	https://www.journalimcms.org/special_issue/square-operation-implementation-on-reconfigurable-hardware-logic-to-attain-high-speed-area-optimization-and-low-power-consumption/
3.Surface electromyography for the detection of Temporomandibular joint Disorder: A review	Mrs. Roopa Kakerri, Dr. D S Bormane	Elsevier's HELIYON-Manuscript No.D-20-05385	July18, 2020		https://www.sciencedirect.com/science/article/pii/S2214785321052342#!
4.Acceleration Techniques using Reconfigurable Hardware for Implementation of Floating Point Multiplier	D S Bormane, SushmaWadar, S C Patil, Avinash Patil	Helix: The Scientific Explorer	31st Oct. 2020	EISSN **2319-5592,** PISSN **2277-3495**	www.helixscientific.pub/index.php/home/article/view/175 https://doi.org/10.29042/2020-10-5-08-14 Helix (2020) 10 (5): 08-14
5.Temporomandibular Joint Disorder with Electromyographic Evaluation in Different Age Groups	Dr. D. S. Bormane, Roopa B Kakkeri.	Annals of the Romanian Society for Cell Biology	2021	1583-6258,	www.annalsofrscb.ro/index.php/journal/article/view/4986
6. A Novel Architecture For Multi-Bit Shift And Rotate Operation	Sushma Wadar , D S Bormane , S C Patil, Avinash Patil	Journal Of Mechanics Of Continua And Mathematical	May (2020)	0973-8975	https://www.journalimcms.org/wp-content/uploads/wccest-20191005-3-1.pdf

		Sciences			
7. Real-time Electrocardiogram monitoring for heart diseases with secured Internet of Thing Protocol	Trupti Thite, Daulappa Bhalke	International journal of Medical Engineering and Informatics	2021	1755-0653	https://doi.org/10.17762/turcomat.v12i5.2155
8. Monophonic Musical Instrument Sound Classification Using Impulse Response	R. Kothe, D.G. Bhalke, A Adeshpande	Turkish Journal of Computer and Mathematics Education	2021	1667-1672	https://doi.org/10.17762/turcomat.v12i5.2155
9. Accident Detection and Monitoring using Black Box	Vidya Deshmukh1, Mahesh Ghate, Akanksha Sukre, Pramila Shinde2	SAMRIDDHI	2020	2454–5767	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1973
10. Non-invasive determination of blood glucose level using narrowband microwave sensor	Vidya Deshmukh, Suvarna Chorage	Journal of Ambient Intelligence and Humanized Computing	2020	**Electronic ISSN** 1868-5145	https://link.springer.com/article/10.1007/s12652-021-03105-z
11. Voice Conversion System for Indian Sign Language using Raspberry Pi	Rajeshri R. Itkarkar, Omkar H. Darekar, Sahil U. Vora, Prachi K. Gorate, Nividita V. Ketkar, Dattataray Bormane, Anilkumar Nandi	SAMRIDDHI	2020	ISSN : 2229 - 7111	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1967
12.Text to Speech Synthesis in Celebrity's Voice	Ajinkya P. Gaddime, Dhananjay P. Mane, Ruchita K. Vehale, Vaishnavi S. Khawale, D. G. Bhalke, R. R. Itkarkar	SAMRIDDHI	2020	ISSN : 2229 - 7111	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1959
13. "Distressed Positioning System based on Long Range Module (LoRa)"	Kirtimalini Chaudhari, Prafulla Ingale, Prathamesh Aswale, Prajyot Aksapure	SAMRIDDHI	2020	ISSN : 2229 - 7112	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1963
14. Internet of Things-Based Onion Preservation System	Vinay S. Sidawadkar, Rohini Ahire, Shankaranand Lohare, Dipak Gavhale, Prachi	SAMRIDDHI	2020	ISSN : 2229 - 7112	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1974

	P. Vast				
15. Internet of Things-Based Monitoring and Mapping of Absentee Visualization on the ShopFloor	Arya A. Pisharody, Jayanti S. Pote, Pranali N.R. Jadhav, Santosh B. Dhekale	SAMRIDDHI	2020	ISSN : 2229 - 7112	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1964
16. Water Level Monitoring and Leakage Detection System using Long Range Module (LoRa)	Pranita S. Patil, Poorwa D. Kapgate, Shambhavi B. Rathour, Nitin P. Mawale, Rajendra G. Khope	SAMRIDDHI	2020	ISSN : 2229 - 7112	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1965
17. Online Food Ordering System for College Canteen	Rupali B. Kale, Ruchika K. Balwade, Vipin B. Gawai	SAMRIDDHI	2020	ISSN : 2229 - 7112	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1968
18. Student Placement Prediction System using Machine Learning	Varsha K. Harihar, D. G. Bhalke	SAMRIDDHI	2020	ISSN : 2229 - 7112	https://smsjournals.com/index.php/SAMRIDDHI/article/view/1972
19. Microstrip Antennas used for Noninvasive Determination of Blood Glucose Level	Deshmukh, V.V., Chorage, S.S.	Proceedings of the International Conference on Intelligent Computing and Control Systems, ICICCS 2020	2020	Electronic ISBN:978-1-7281-4876-2 pp. 720–725, 9120873	https://ieeexplore.ieee.org/document/9120873 DOI: 10.1109/ICICCS48265.2020.9120873

(b) Number of books/book chapter published:

AY 2022-23				
SN	**Title of Book**	**Author**	**Name of Publisher**	**ISBN /ISSN**
1	Digital Circuits	Dr Somnath B Dhonde	Technical Publications	978-93-332-2211-2
AY 2021-22				
SN	**Title of Book**	**Author**	**Name of Publisher**	**ISBN /ISSN**
1	Signals & Systems	Dr D G Bhalke	Technical Publications	978-93-332-1173-4
2	Fundamentals of Java Programming	Mr Santosh B Dhekale	Technical Publications	978-93-91567-91-0
3	Advanced Java Programming	Mr Santosh B Dhekale	Technical Publications	978-93-5585-013-3
AY 2020-21				
SN	**Title of Book**	**Author**	**Name of Publisher**	**ISBN /ISSN**
1.	Data Structures SE (2019 Course)	S B Dhekale	Technical Publications	978-93-90641-36-7
2.	A text book for Object Oriented programming(204184) SE (E&TC) 2019 course Sem-II book published ISBN 978-93-90770-18-8	S B Dhekale	Technical Publications	978-93-90770-18-8

(c) Patents Published :

Sr No	Title of the patent	Indian/ Other	Investigator details	Date of filing of patent	Application No	Present Status
AY: 2022-23						
1	Design Patent e "IOT BASED SOLAR POWERED AGRICULTURE ROBOT	Indian	Mr V B Gawai	381449-001 14/3/2023	381449-001	Published
AY:2021-22						
1	Design of Writing board with arrangement of Projector and Camera	Indian	Ms R R Itkarkar	Filled on 04/10/21 Granted on 24/11/2021	Design No. 350663-001	Granted
2	Regular Equal Water distribution system	Indian	Ms R R Itkarkar	Filled on 04/01/2022 published on 21/01/2022	202221000370 A	Granted
3	Development of a Screening tool for Sleep Apnea for experts in clinical setups: setups	Australian	Dr R R Itkarkar	2021103840 & 14/04/2022	2021103840	Granted
4	Feature Extraction & Machine learning for evaluation of students communication skills	Indian	Mr S B Dhekale	202141028830 Filled on 27/6/2021 Published on 9/7/2021	202141028830	Published
5	Regular Equal Water distribution system	Indian	Ms S A Takalkar	Filled on 04/01/2022 published on 21/01/2022	202221000370 A	Granted
AY: 2020-21						
1	Method and Apparatus for Squaring operation",	Indian	Dr D S Bormane	21/05/2021	202121022673	Published
2	Method and Apparatus for cube operation of	Indian	Dr D S Bormane	26/05/2021	202121023453	Published

	any radix N-bit number",					
3	Gesture based Vocalizer	Indian	Dr D S Bormane	25/06/21	202121022504 A 20/05/21	Published,
3	evelopment Of A Screening Tool For Sleep Apnea For Experts In Clinical Setups	Indian	Ms R R Itkarkar	Filled on 17/05/21 and published on 11/06/21	202141022036 A	Published,
5	Gesture Based Smart Vocalizer	Indian	Ms R R Itkarkar	Filled on 20/05/21 Published on 25/06/21	202121022504 A	Published,

(d) Copyrights:

S. N	Name of the Faculty	Diary Number	Work Title	Class of Work	Registration Date	Status
1	Dr R R Itkarkar	L-128797/2023	Real Time Arm Movement Detection For Elderly People	Literacy	10/7/2023	Published
2.	Ms R R Itkarkar	Diary Number 6203/2020-CO/L 19/10/2020	CNN based hand gesture recognition for Indian Sign Language	Literary	19/10/2020	Published

(e) (i) Number of PhDs in the department : 06

Name of the Faculty	Year in which PhD completed
Dr D S Bormane	2003
Dr D G Bhalke	2016
Dr S B Dhonde	2017
Dr P P Vast	2018
Dr K B Chaudhari	2021
Dr R R Itkarkar	2022
Dr V V Deshmukh	2023

(ii) Number of PhD awarded in assessment years : 03

Name of the Faculty	Year in which PhD awarded
Dr K B Chaudhari	2021
Dr R R Itkarkar	2022
Dr V V Deshmukh	2023

(iii) Number of PhD pursuing: 05

Name of the Faculty	Name of the institute and University
Mr S B Dhekele	AISSMS IOIT , Pune (SPPU)
Mr N P Mawale	AISSMS IOIT , Pune (SPPU)
Ms V S Navale	AISSMS IOIT , Pune (SPPU)
Ms Y P Lad	AISSMS IOIT , Pune (SPPU)
Ms G D Salunke	SRI SATYA SAI, University of Technology & Medical Sciences, Sehore

A. PhD guided /PhD awarded during the assessment period while working in the institute (4)

Sr. No	Name of the PhD Guide	Name of Research Scholar	Title of Research	Name of University	Year of Passing
1	Dr D S Bormane	Mrs. Archana Dikshit	"Electrocardiogram segmentation and classification for Arrhythmia detection using rough set theory"	SPPU	14/07/ 2020
2	Dr D S Bormane	Mr. S. M. Kulkarni	"Video Stabilization using feature point matching"	SPPU	16/03 2020
3	Dr D S Bormane	Wadar Sushma Raju	Hardware accelerators for RISC in multimedia applications	SPPU	June 2021

Ph. D Ongoing Candidate list of Dr D S Bormane, Dr S B Dhonde and Dr P P Vast

Sr No	Name of the PhD Guide	Candidate Name	Thesis Title	Date of Registration	University
1	Dr D S Bormane	Amol Sonawane	4G based SAR analysis for an anatomically based human head	12/02/18	SPPU, Pune
2	Dr D S Bormane	Rupa Kakkeri	Detection of Temporomandibular joint disorder using surface electromyography of masticatory muscles	09/02/18	SPPU, Pune
3	Dr D S Bormane	Vidya V Waykule	Develop an algorithm for identification and classification of plant diseases for tomato crop.	05/05/2022	SPPU, Pune
4	Dr D S Bormane	Shikha Jalaj Pachouly	Predictive Analytics Algorithm for Performance Prediction of students using Explainable Artificial Intelligence and Educational Data Mining	09/05/2022	SPPU, Pune
5	Dr D S Bormane	Prashant S Sadaphule	Development of an Ensemble model for detection of respiratory disease using deep learning in healthcare	06/05/2022	SPPU, Pune
6	Dr D S Bormane	Jayashree Pasalkar	Trust management platform for internet of everything using deep neural network	20/10/2022	SPPU, Pune
7	Dr S B Dhonde	Pratiksha Nandanwar	A Novel approach Cervical cancer detection using hybrid stacked ensemble models and feature selection	17/11/2022	SPPU, Pune
8	Dr S B	Namita Kure	An Automatic	4/5/2022	SPPU,

	Dhonde		artificial intelligence based Dysarthric speech recognition		Pune
9	Dr S B Dhonde	Shashikant Thite	Detection and classification of grapes leaf diseases using image processing	4/5/2022	SPPU, Pune
10	Dr S B Dhonde	Supriya Lohar	To develop hybrid digital – Analog beam forming algorithm and channel estimation technique for massive MIMO	4/5/2022	SPPU, Pune
11	Dr P P Vast	Vaishnavi Navale	Enhanced Image based classification & Detection of marine organisms using optimized Convolution Neural Network	25/09/2023	SPPU, Pune
12	Dr P P Vast	Maind Chandrabhaga	Development of Efficient Convolutional Neural Network for Autism Spectrum Disorder Identification Using Facial Expression	25/09/2023	SPPU, Pune
13	Dr P P Vast	Lad Yogita	Nondestructive Metal –aloy Surface Crack Detection Using Microwave Sensor	25/09/2023	SPPU, Pune

5.7.2	**Sponsored Research:**	**05**

SN	Title of the Project	Principal Investigator	Funding Agency	Duration	Amount Received (INR)
1	AIML integrated IOT Laboratory	Dr D G Bhalke / Dr S B Dhonde	AICTE, New Delhi	2021-22	@ 1474730/-
	Total Funding Received in the assessment Years				14,74,730/-

5.7.3	**Development Activities:**	**10**

Development activities play an important role in the enhancement of quality of the program. Detailed instructional material such as CO-POs, academic calendar, course material, assignments, lesson plan, lab instruction material, etc. help the student to understand the course and to plan their activities accordingly. Use of working models, charts, etc.; during the teaching learning process help students to clearly understand complicated construction, working, etc.

A. Product Development
B. Research laboratories
C. Instructional materials
D. Working models/charts/monograms etc.

A. Product Development: A separate project lab displaying/exhibiting projects done by faculty as well as students.

Figure 5.7.3.1: Smart Chef Robot made by students under guidance of Dr V V Deshmukh

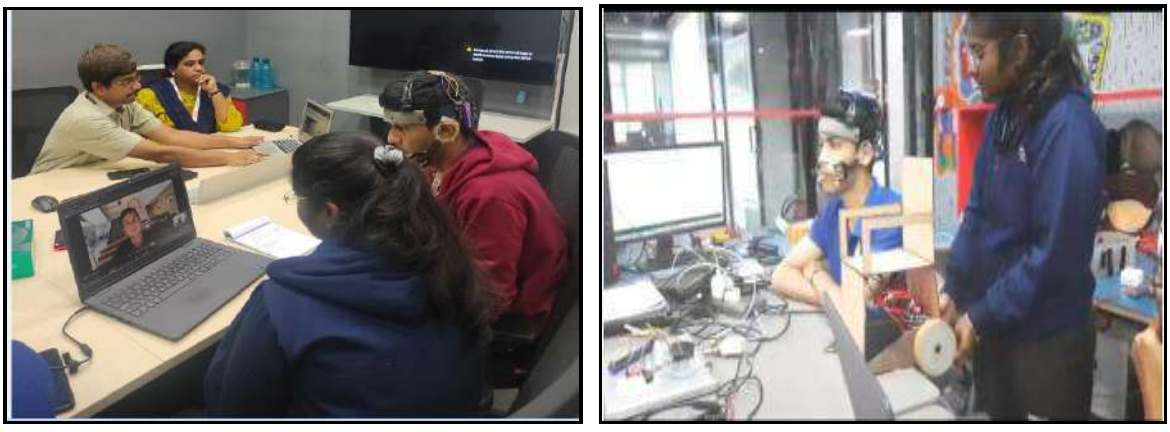


Figure 5.7.3.2: The wheel chair operated through the tongue touch

Figure 5.7.3.3: Medical Assistive Robot

Figure 5.7.3.4: Drones Developed by students

B. Research laboratories:

Research Computer Laboratory:

The department has computer laboratory equipped with high performance computers and high end software like MATLAB that can be utilized for research purpose. Communication laboratory also includes costly and major equipment like Vector Network Analyzer (VNA with 10 Kz to 8 GHz frequency range) and antenna trainer kit that can be specially used for microwave research purpose. Recently in AY: 2021-22 Department has received grant from AICTE, New Delhi to established an Artificial Intelligence and IOT laboratory. Following are the main objectives of the laboratory:

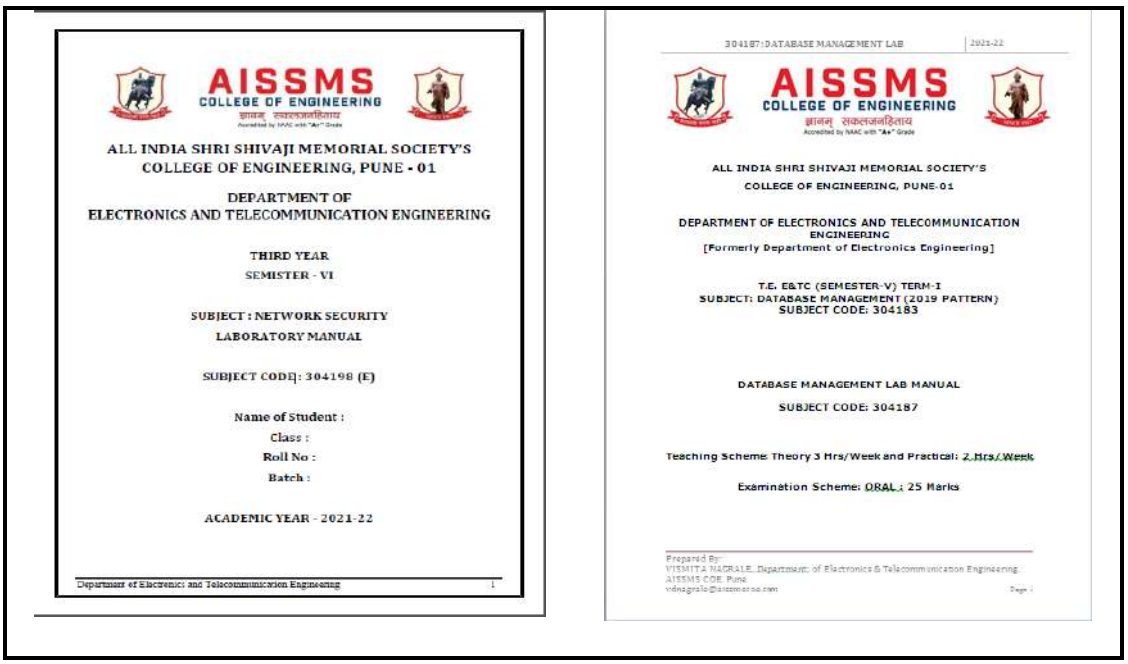
Objective:

- To develop state of the art facility in emerging trends.
- To provide hands-on exposure in the field of IoT.
- To enable students explore and innovate in the field of Artificial Intelligence.

Lab Name	Room No	Hardware	Software
Artificial Intelligence and Machine Learning (AIML) Laboratory	431	Lenovo Thinkcentre Neo 50t (11SES0B100) i7 , 8+8 GB, 256GB, 1 TB HDD (Total Qty. 25) Petal AI & ML Research Kit Petal MYO AI & ML IoT, Automation Suit	Petal AI & ML Software Suit

C. Instructional materials:

1. Faculty members have created Lab Manuals for each course which helps students to perform practical during Laboratory hours.


AISSMS COLLEGE OF ENGINEERING

ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE - 01

DEPARTMENT OF
ELECTRONICS AND TELECOMMUNICATION ENGINEERING

THIRD YEAR
SEMISTER - VI

SUBJECT : NETWORK SECURITY
LABORATORY MANUAL

SUBJECT CODE: 304198 (E)

Name of Student :
Class :
Roll No :
Batch :

ACADEMIC YEAR - 2021-22

Department of Electronics and Telecommunication Engineering

304187: DATABASE MANAGEMENT LAB 2021-22

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ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING, PUNE-01

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
[Formerly Department of Electronics Engineering]

T.E. E&TC (SEMESTER-V) TERM-I
SUBJECT: DATABASE MANAGEMENT (2019 PATTERN)
SUBJECT CODE: 304183

DATABASE MANAGEMENT LAB MANUAL

SUBJECT CODE: 304187

Teaching Scheme: Theory 3 Hrs/Week and Practical: 2 Hrs/Week

Examination Scheme: ORAL : 25 Marks

Prepared By:
VISMITA NAGRALE, Department of Electronics & Telecommunication Engineering
AISSMS COE, Pune

Figure 5.7.3.5: Samples of Lab Manuals available in the Laboratories

2. Charts showing the safety measures (Dos and don'ts and use of fire extinguisher) are also displayed in all laboratories

D. Working models & charts:

1. The department has working models available for lab. Also relevant projects done by final year students are kept in the respective labs.
2. Charts prepared by faculty members are displayed in the respective laboratory.
3. Knowledge wall flex boards are displayed outside each laboratory.
4. All other laboratories are provided with the information charts

Figure 5.7.3.6: Samples of charts prepared by Faculty members available in the laboratories

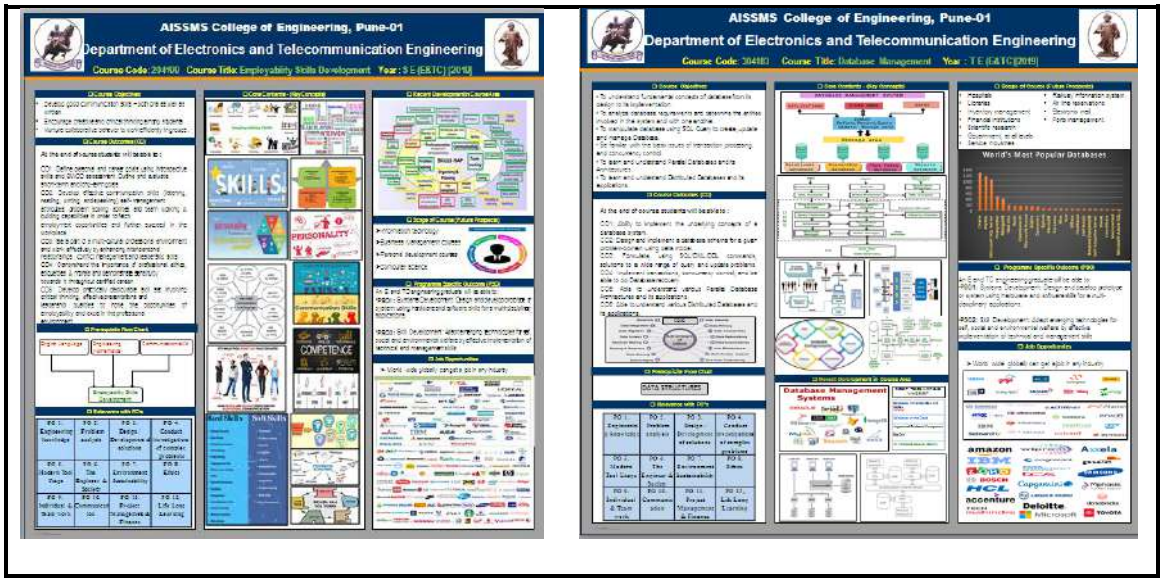


Figure 5.7.3.7: Samples of Knowledge Walls of courses prepared by faculties displayed in laboratories

Figure 5.7.3.8: Working Drone Models

Figure 5.7.3.9: Working and Sponsored Project Models

5.7.4	Consultancy From Industry:	05

Academic Year 2021_22

SN	Title of the Project	Principal Investigator	Funding Agency	Duration	Amount Received (INR)
1	PARAMARSH	Dr D S Bormane	UGC	1 Year	1162778.00
2	Quality Enhancement	Dr D S Bormane	UGC	1Year	45000.00
Total Amount					**1207778.00**

Academic Year 2020_21

SN	Title of the Project	Principal Investigator	Funding Agency	Duration	Amount Received (INR)
1	Quality Enhancement	Dr D S Bormane	UGC	1Year	50000.00
Total Amount					**50000.00**

5.8	Faculty Performance Appraisal and Development System (FPADS)	30

A. A well-defined performance appraisal and development system instituted for all the assessment years (10)

B. Its implementation and effectiveness (20)

The college has following appraisal and development schemes for faculty:

(1) Performance based appraisal scheme (PBAS):

Performance based appraisal scheme (PBAS): The college has a well-defined faculty appraisal system. The PBAS details are submitted by each faculty at the end of each semester. The performance is assessed by the Head of department as well as Head of the institution. The faculty feedback is also collected from the students at mid and end of the semester. The feedback is assessed by the Head of the department and appropriate feedback/suggestions are given to the faculty for the improvement.

The PBA form consists of various categories like teaching learning process, quality of tests and assignments, student feedback, results of previous three year, participation in professional body activities, staff and student development programs, academic achievements during that year, presentation and publication of papers in the national and international journals, participation of organization in co/extra-curricular activities, help extended to college administration, recognition, rewards received, research and consultation activity, interpersonal skills, mentor activity, loyalty and discipline etc.

Key points for faculty appraisal are:

1. Professional Society Membership
2. Professional Society Chapter (Student Branch) and the activities
3. Result Analysis and Actions on that to improve higher grades.
4. Remedial Coaching
5. Question papers of other Universities and Question bank generation
6. Books with the latest Editions, well known publishers and internationally valid authors to be followed
7. Workshops to be organized

8. Professional Networking
9. Experiment list to be revised and to be prepared and circulated in group to avoid duplication
10. Additional Content to be covered other than regular curriculum
11. Research work and activities and projects/consultancy to be carried out
12. Other initiatives for the department, College and Campus
14. Industry Interactions and Visits
15. Placements related efforts(One Faculty One Industry)
16. Improvements in T-L Process and Pedagogical Innovations
17. More publications
18. Exposure on Magazines, Journals, Articles to be increased

Implementation:

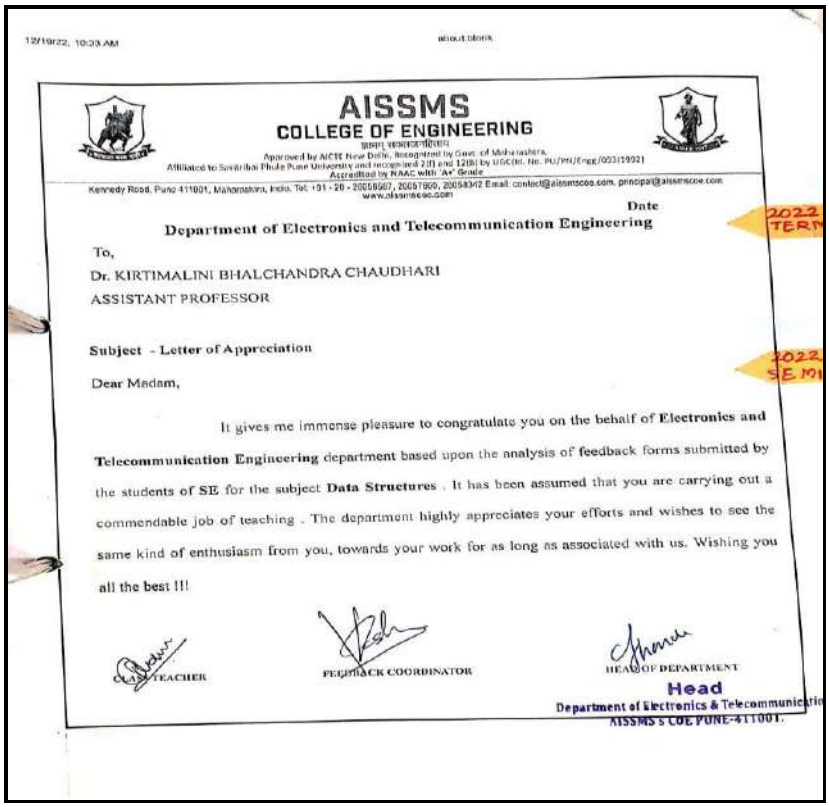
- PBA forms are submitted by each faculty member at the end of each semester.
- The PBA forms are assessed by Head of the department and Principal as per the guidelines given by IQAC.
- The faculty member discusses with head of the department as well as principal in case of any discrepancy before finalization of PBA score.
- IQAC identifies the faculty member with highest PBA score after verification of all documents and nominates the faculty member for best teacher award at society level.

Effectiveness:

The PBAS as resulted in following outcomes:

- Improved use of ICT and innovative practices in teaching and learning
- Improved research publications/copyrights and patents
- Increased industrial visits as well as expert talks.
- Improved participation in FDP/STTP/Swayam/MOOC Courses.
- Improved industry institute interactions and MoU.
- Improved consultancy work.

Figure 5.8.1: Appreciation of faculty by HOD in case of appreciable Feedback



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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(Id. No. PU/PN/Engg/093(1992)
Accredited by NAAC with 'A+' Grade
Kennedy Road, Pune 411001, Maharashtra, India. Tel: +91 - 20 - 26058907, 26057909, 26054342 Email: contact@aissmscoe.com, principal@aissmscoe.com
www.aissmscoe.com

Date

Department of Electronics and Telecommunication Engineering

To,
Dr. KIRTIMALINI BHALCHANDRA CHAUDHARI
ASSISTANT PROFESSOR

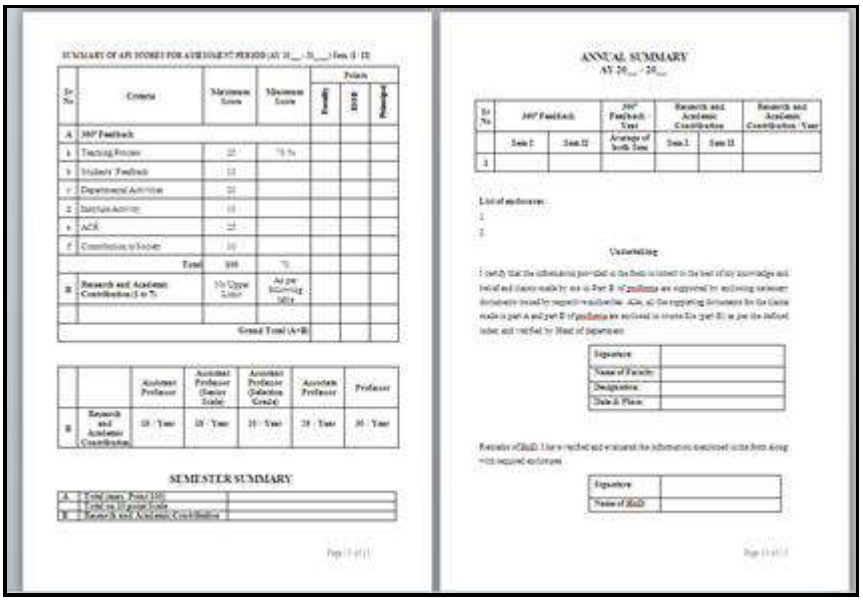
Subject - Letter of Appreciation

Dear Madam,

It gives me immense pleasure to congratulate you on the behalf of **Electronics and Telecommunication Engineering** department based upon the analysis of feedback forms submitted by the students of **SE** for the subject **Data Structures** . 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
Head
Department of Electronics & Telecommunicatio
AISSMS's COE, PUNE-411001.

Figure 5.8.2: Faculty Appreciation Letter



ANNUAL SUMMARY

SEMESTER SUMMARY

Figure 5.8.3 Performance Appraisal Sample Form

(2) Best Teacher award: The applications are invited from the faculty members are invited at the institute every year. The applications are scrutinized and assessed by the panel of experts/committee on the basis of academic performance, research activities and contribution at institute level. The top scoring faculty is awarded as best teacher with a Cash prize of Rs.50000/- and certificate.

Figure 5.8.4 Dr D G Bhalke receiving Best Teacher Award

3) Recognition of Excellence award: The faculty members completing PhD and significant contribution in academics are awarded by the AISSMS Society every year conferring Recognition of excellence award with memento and certificate on the day of Shahu Jayanti.

Figure 5.8.5 PhD Award Appreciation of Dr Prachi P Vast

(4) Module coordinators: The department has module coordinator system for improvement in academics. Seniors faculty members are assigned as module coordinators. The module coordinator assesses the course file of every faculty members in the module and gives suggestions for the improvement. Following are the modules and module coordinators at department level:

Table 5.8.1: List of Module Coordinator

Module	Name of the Module coordinator
Module Coordinator Electronics Devices & Circuits	Mr V B Gawai
Module Coordinator Software Modeling	Mr S B Dhekale
Module Coordinator VLSI and Embedded	Ms V D Nagrale
Module Coordinator Communication & Signal Processing	Ms Y P Lad
Module Coordinator Network & Security	Dr V V Deshmukh
Module Coordinator Humanities, Employability and Skill Development	Mr N P Mawale

(5) Research Promotion Scheme: The institute has a research promotion scheme which encourages the faculty to undertake research projects, consultancy work and training programs. The faculty involved is awarded with an appropriate amount as per the policy decided at the institution level.

(6) Support for Higher Studies: The faculty members pursuing higher studies are awarded with financial assistance of Rs.1 lakh or One-month study leave as per the choice of the faculty. The faculty member is permitted to carry out research studies by adjusting the teaching load in the morning slot and rest of the time can be utilized for study.

(7) Financial assistance for attending FDP/QIP/STTP/International Conferences:

The faculty member is permitted on duty leave to attend the respective quality improvement program. The financial assistance is provided for payment of registration fees, travel fare and accommodation.

(8) Financial assistance for NPTEL certification and Patent Grant:

The faculty receives the NPTEL registration fees if she/he scores more than 75% in the course certification examination and for patent grant Institute contribute financial expenditure.

5.9	Visiting/Adjunct/Emeritus Faculty etc.	10

- Provision of Visiting /Adjunct/Emeritus faculty etc.(1)
- Minimum **50** hours per year interaction (per year to obtain three marks : 3 x 3 = 9)

The department has provision for visiting faculty for the Audit course at UG level. Following are the details of the faculty:

Institute has a policy to invite / appoint visiting faculty, adjunct faculty and Emeritus Professor as and when demanded by the Program for particular academic needs of the program. Such type of appointment is apart from regular faculty members' needs and expert lecture faculty. Following table indicates details of the adjunct faculty appointed by the program

Year	Name of the visiting Faculty	No of Contact hours
2023-24	Mr Manish Ratnakar	30 Hours Value Added Course= 30 Hours
2022-23	Mr Makarand Thombare	18 hours per class* 3 classes = 54 Hours
2021-22	Mr Makarand Thombare	18 hours per class* 3 classes = 54 Hours
2020-21	Dr. Mrs Rakhi Khedkar	4 months 80 Hours in a year

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DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION VI

FACILITIES AND TECHNICAL SUPPORT

CRITERION 6	Facilities and Technical Support	80

6.1	Adequate and well equipped laboratories, and technical manpower	30

Sr. No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Basic Electronics Engineering	3-4 (20)	Test Lab , Function generator , Power supply	Basic Electronics Engineering	Mrs Shraddha S Bodke	Laboratory Assistant	BE (E&Tc)
2.	Circuit and Simulation Lab	3-4 (20)	DSO,DPO, Function Generator, 61/2 Digital Multimeter	Integrated circuits, Electronics Device and Circuit, Electronics System Design	Mr. Shashibhushan M. Dhiwar	Laboratory Assistant	ME (E&Tc)
3	Power Electronics and Digital Circuit Lab	3-4 (20)	Power oscilloscope, Digital Trainer boards/kits	Advance power Electronics, Power Electronics, Digital Electronics	Mr. Avinash D. Paygude Mrs Kalyani M Zambre	Laboratory Assistant Laboratory Assistant	BE (E&Tc) sun certification BE (E&Tc)
4	Communication Engineering Lab	3-4 (20)	Microwave bench,DSO, TV, RADAR trainer kit, Spectrum Analyzer, VNA	Analog Communication, Digital Communication, Optical and Microwave Communication	Mr. Shashibhushan M. Dhiwar	Laboratory Assistant	ME (E&Tc)
5	VLSI Lab	1 (20)	Spartan III/II	VLSI, Data Structure &Algorithms Objectoriented programming system	Mr. Sandeep T. Gajar	Laboratory Assistant	BCA Appearing, Diploma in Hardware and Networking, Microsoft Cirtified

6	Signal processing and Embedded system	1 (20)	Microcontroller 8051,Ardinuo kit, ARM boards, CortexM kits	Microcontroller, Internet Of Things, Signal & System	Mrs K M Zambre	Laboratory Assistant	BE(E&Tc)
7	Data Analytics Lab	1 (20)	MATLAB,	Lab practice	Mrs Shraddha S Bodke	Laboratory Assistant	BE(E&Tc)
8	Project & Skill Development Lab	3-4 (20)	DSO,DPO, Fun. Generators, Soldering gun , Drill M/c (Small), Electronic Test Bench	Mini Project, Project stage I &II	Mr. Shashibhushan M. Dhiwar	Laboratory Assistant	BE(E&Tc)
9	AI&ML Integrated IOT Lab	1 (20)	Iot Kits and Boards	AIML, IOT	Mr. Sandeep T. Gajar	Laboratory Assistant	BCA Appearing, Diploma in Hardware and Networking, Microsoft Cirtified

6.2	Additional facilities created for improving the quality of learning experience in laboratories	25

Sr. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students' are expected to have enhanced learning	Relevance to POs/PSOs
1	Aviot-o-virtues (Robo and Drone)	Making robot, conducting workshops, Participation in Competitions and Making drone and workshop	Practical skill development, Enhancement in teamwork and leadership qualities, improvement in presentation skills , Enhance knowledge	Multidisciplinary	Mechatronics, Automation, Robotics, Communication, Automation	PO2, PO3, PO4, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
2	Deaxus Coding Club	Programming Skills and Data Analysis skills	Improvement in software development and data analytics and visualization skills	E & TC	Projects related to software, C, C++, Java, Python Programming	PO1, PO2, PO3, PO5, PO7, PO8, PO9, PO10, PO11, PO12 PSO2, PSO3
3	Centre of Excellence (Automation Anywhere)	Designing and Automation	Enhance knowledge	Multidisciplinary	Automation and Controls, Python Programming	PO5, PO8, PO9, PSO1, PSO2, PSO3
4	Electronics for you	Learning of different Projects	Advanced learning, self-learning	E&TC	Hardware Design	PO4, PO9, PO12, PSO1, PSO2, PSO3
5	Virtual Lab	IIT Bombay	For simulation	E&TC	Design, circuit simulation	PO1, PO2, PO5, PSO1, PSO2
6	Open source software OCTAVE	Additional facility for Simulation	Knowledge and Skill gain	E&TC	Software Programs and replacement to MATLAB	PO4, PO5, PO12, PSO2
7	Bio-Medical Spectrophotometer	Additional facility for measuring the	Advanced learning	E&TC	To examine blood or spinal fluid for clinical	PO1,PO3, PO4, PO9, PO12,

		intensity of light in a part of the spectrum			diagnosis	PSO1, PSO2, PSO3
8	Bio-Medical Electro surgery	Additional facility for deep coagulation or cutting of the skin.	Advanced learning	E&TC	To provide superficial or deep coagulation or cutting of the skin	PO1, PO3, PO4, PO9, PO12 PSO1, PSO2, PSO3
9	Muscle Simulator	Additional facility for learning muscle contraction using electric impulses	Advanced learning	E&TC	Muscle contraction using electric impulses in Biomedical	PO1, PO3, PO4, PO9, PO12, PSO1, PSO2, PSO3
10	Mediscope	Additional facility for bed side monitor (ECG)	Advanced learning	E&TC	Electro cardiogram	PO1, PO3, PO4, PO9, PO12, PSO1, PSO2, PSO3
11	Electro Pneumatics Controller	Additional facility for enhance learning	Advanced learning	Multidisciplinary	Pneumatic control use in automation industry	PO1, PO3, PO4, PO9, PO12, PSO1, PSO2, PSO3
12	Hydraulic controller	Additional facility for enhance learning	Advanced learning	Multidisciplinary	use in automation industry	PO1, PO3, PO4, PO9, PO12, PSO1, PSO2, PSO3
13	Characteristic of valve	Additional facility for enhance learning	Advanced learning	Multidisciplinary	Control valve use in civil, automated plant, Mechanical	PO1, PO3, PO4, PO9, PO12, PSO1, PSO2, PSO3
14	Vector Network Analyzer For Antenna Testing	Additional facility for testing of Antenna	Advanced learning	E&TC	Antenna Design and testing	PO1, PO2, PO3, PO4, PO5, PO9, PO12, PSO1, PSO2, PSO3

15	Antenna Trainer	Additional facility for Different types of antenna	Advanced learning	E&TC	Different types of antenna and their radiation patterns	PO4, PO5, PO9, PO12, PSO1, PSO2, PSO3
16	LCD Trainer	Additional facility for learning TV	Advanced learning	E&TC	New TV technology for demonstration	PO4, PO5, PO9, PO12, PSO1, PSO2, PSO3
17	Waveform Analysis and Simulation DSSS PSK Technique	Additional facility for mobile communication	Advanced learning	E&TC	New technology for demonstrating mobile communication	PO4, PO5, PO9, PO12, PSO1, PSO2, PSO3
18	BAJA SAEINDIA	Additional facility for Design and Application	Advanced learning	Multidisciplinary	Design of Vehicle and development	PO4, PO5, PO9, PO12, PSO1, PSO2, PSO3
19	Etching Of PCB Machine	Additional facility for PCB Etching	Knowledge and Skill gain	E&TC	Etching Process of PCB (Copper Clad PCB)	PO3, PO5, PO9, PO12, PSO1, PSO3
20	PCB Making Machine	Additional facility for PCB making	Knowledge and Skill gain	E&TC	Designing of PCB	PO3, PO5, PO9, PO12, PSO1, PSO3
21	Electronic work Station For Testing And Measurement	Additional facility for Testing and measurement	Knowledge and Skill gain	E&TC	Testing and measurement of analog and digital circuits	PO3, PO5, PO9, PO12 PSO1, PSO3

Table B.6.2

6.3	Laboratories: Maintenance and overall ambiance	10

Laboratory Maintenance:

- All the laboratories are well equipped and Periodic maintenance is done for the experimental setup and laboratory equipment.
- Maintenance of the instruments are carried out on a regular basis and also when necessary
- A dead stock register is maintained for all the laboratories.
- History cards of equipment are maintained and are kept intact.
- The old and outdated equipment get write-off by the standard procedure.
- The care of the repairs and maintenance of all computers is taken by the system administrator of the institute.

Overall Ambiance:

- Every laboratory is properly ventilated.
- Windows are provided for excellent air circulation, which is supported by several ceiling fans.
- All laboratories offer proper seating arrangements for students.
- Ambient lighting assisted by fluorescent tubes is provided. Curtains are provided for windows to ensure good visibility.
- The laboratories are always kept neat and clean.
- A housekeeping time table is provided to the attendant and is maintained.
- Conventional black boards, soft boards and white board in laboratory

Communication Engineering Lab

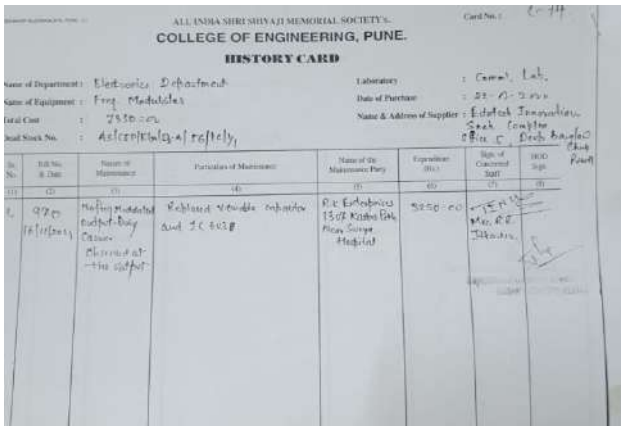
AI and IOT Lab

Data Analytics Lab

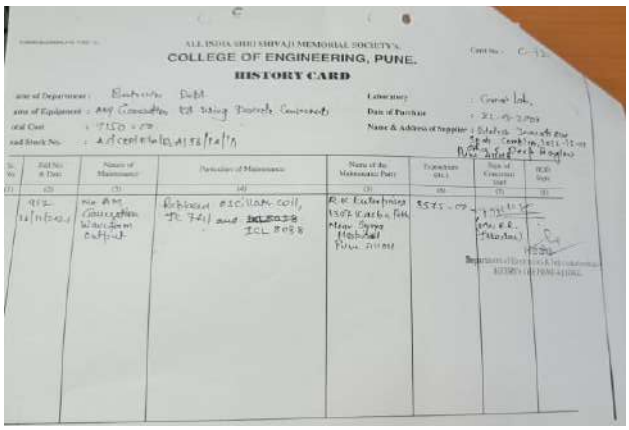
Signal processing and Embedded system

Seminar Hall

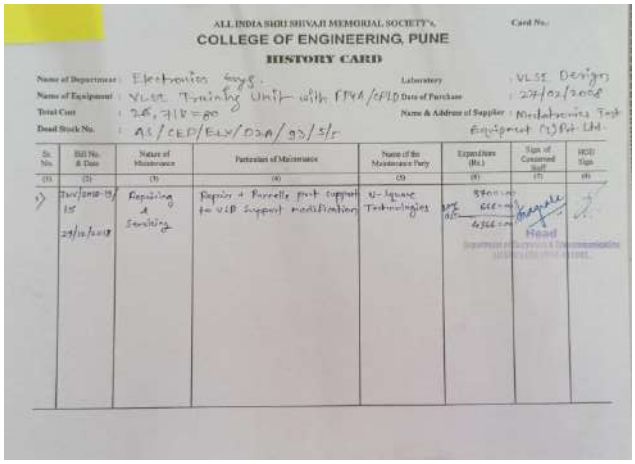
History cards:


ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY's
COLLEGE OF ENGINEERING, PUNE.
HISTORY CARD

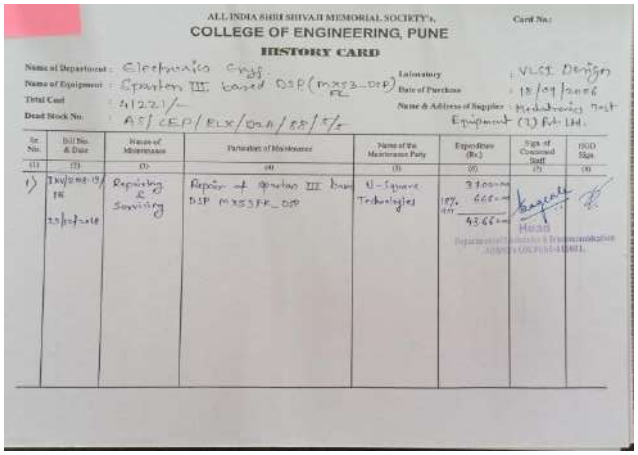
Frequency Modulator History card


ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY's
COLLEGE OF ENGINEERING, PUNE.
HISTORY CARD

AM Generator Kit History card


ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY's
COLLEGE OF ENGINEERING, PUNE
HISTORY CARD

VLSI Training kit History card


ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY's
COLLEGE OF ENGINEERING, PUNE
HISTORY CARD

VLSI Training kit Spartan-III History card

6.4	Project laboratory	05

Facilities &Utilization

- The Project Lab is an open lab where all students have ready access to basic electronic test equipment and instrumentation.
- The primary purpose of the lab is to provide the space and resources needed by students to complete their Design and general Projects.
- The lab is also available for students who need to complete projects and assignments from their other E&tc courses and laboratories or for E&tc graduate students working on projects related to their thesis research.
- The lab also serves as a meeting location for groups of students working on team projects.
- Many students also use this lab to work on supplemental learning projects to enhance their understanding of class and lab assignments.
- The Project Lab is open Monday through Friday and is monitored by student & lab assistant. Presently one large study desk for student use in this lab.
- In addition to the array of test equipment provided at the work benches in the Project Lab, additional instrumentation, cabling, and prototyping materials are also available for student laboratory and project use from a check-out window in this Lab.

Project work

Project work

6.5	Safety measures in laboratories	10

Sr. No.	Name of the Laboratory	Safety measures
1.	Basic Electronics Engineering. Lab.	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
2.	Circuit and Simulation Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
3.	Power Electronics and Digital Circuit Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
4	Communication Engineering Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations.

		COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
5	VLSI Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
6	Signal Processing and Embedded System	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
7	Data Analytics Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous
8	Project & Skill Development Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the Equipment's from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous

9	AI&ML Integrated IOT Lab	All power supply lines are properly insulated and covered. Circuit breaker is available. First-aid kit is available. Fire extinguisher is available. Lab assistant maintain equipment and keep them in safe operating condition. Equipment's are provided with fuses to safeguard the equipment from power fluctuations. COVID SAFETY: Mask were mandatory for all. Hand sanitizer before entering the Laboratory spitting could be dangerous

Table B.6.3

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Approved by AICTE, New Delhi, Recognized by Government 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 | NBA - 6 UG Programmes

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION VII

Continuous Improvement

CRITERION VII	Continuous Improvement	50

7.1	Actions taken based on the results of evaluation of each of the POs &PSOs	20

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attaithe assessment years.

Actions to be written as per table in 3.3.2.

Examples of analysis and proposed action

Sample 1-Course outcomes for a laboratory course did not measure up, as some of the lab equipment did not have the capability to do the needful (e.g., single trace oscilloscopes availtrace would have been better, or, non-availability of some important support software etc.). Action taken-Equipment up-gradation was carried out (with details of up-gradation)

Sample 2-In a course on EM theory student performance has been consistently low with respect to some COs. Analysis of answer scripts and discussions with the students revealed thaattributed to a weaker course on vector calculus.
Action taken-revision of the course syllabus was carried out (instructor/text book changed too has been changed, when deemed appropriate).

Sample 3-In a course that had group projects it was determined that the expectations from this course about PO3 (like: "to meet the specifications with consideration for the public heaand the cultural, societal, and environmental considerations") were not realized as there were no discussions about these aspects while planning and execution of the project. Action takeplanning, monitoring and evaluation included in rubrics related to these aspects.

POs & PSOs Attainment Levels and Actions for improvement – CAYm1

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations
PO1: Engineering Knowledge (Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.)			
PO1	2.38	1.86	The PO1 attainment has shown an improvement compared to the previous value. However, due to lack of understanding of fundamental concepts, students' performance is low in courses like Signals & Systems, Digital Signal Processing, Electromagnetics, Electrical Circuits, and Electronic Circuits etc.
Action 1: Understanding the needs of the students, faculty members need to conduct different activities such as tutorial, numerical problem solving, showing videos etc. Action 2: Extra theory and practical sessions need to be conducted for DSE students. Action 3: More practice to solve unsolved problems from books and previous university question papers need to be exercised.			
PO2: Problem Analysis: Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	2.18	1.85	There is an improvement in the attainment of PO2 compared to the previous attainment. It is observed that students lack in applying fundamental concepts to practical aspects of problem analysis. The problem solving and analyzing skills are to be gained through core fundamental subjects.
Action 1: Identifying the fact that some of the core courses do not have tutorial sessions assigned in the formal curriculum, special tutorial sessions need to be conducted in order to enhance problem solving skills of the students. Action 2: Course wise and topic wise question banks need to be prepared and supplied to the students. Action 3: Assignment need to have more numerical problems, wherever possible.			
PO3: Design/development of Solutions (Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.)			
PO3	1.61	1.59	The attainment of PO3 is around 71%. This is due to the fact that complex design problems demand designing a system by integrating knowledge gained in various courses.

Action 1: Faculty need to be encouraged to undergo professional training.
Action 2: More number of engineering problems need to be identified and solved with a design thinking approach.
Action 3: Students need to be encouraged to form heterogeneous groups to identify societal problem and attempt solution towards it.

PO4: Conduct Investigations of Complex Problems (Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.)

PO4	1.63	1.73	PO is attained and target level will be increased for next program year..

Action 1: Industry relations need to be enhanced and students will be encouraged to take hard core projects demanding investigations of complex systems.
Action 2: To involve experts for orientation towards investigating complex engineering problems.

Action 3: More number of students will be encouraged for industry sponsored projects and internships.

PO5: Modern Tool Usage (Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.)

PO5	1.96	1.77	The PO5 attainment has shown an improvement compared to the previous year's attainment. The curriculum has less emphasis on modern tools.

Action 1: More hands-on experience through the projects and workshops need to be provided.

Action 2: Students need to be encouraged to use various advanced software and modern tools.

PO6: The Engineer and Society (Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO6	1.48	1.62	PO is attained and target level will be increased for next program year.

Action 1: Active participation in different social activities like National Service Scheme camps and techno-social visits will be increased by motivating students.
Action 2: Students need to be motivated to take active part in professional student chapters' activities.

PO7: Environment and Sustainability (Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.)

PO7	1.66	1.60	As the current curriculum places less emphasis on environmental awareness and sustainability more efforts are required to meet this PO.

Action 1: Students need to be encouraged to do their project work which will be beneficial for society and also helpful in environmental context. Action 2: Students need to be motivated to participate in activities.			
PO8: Ethics (Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.)			
PO8	1.35	1.48	PO is attained and target level will be increased for next program year.
Action 1: Ethics need to be given significant attention in all aspects of course delivery, particularly in report writing. Action 2: Students need to make aware of concept of plagiarism through project. Action 3: Seminars/ webinars such as Intellectual property rights need to be planned for students.			
PO9: Individual and Team Work (Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings).			
PO9	2.13	2.04	The PO9 attainment has shown improvement compared to the previous value. Courses such as Project, Mini project, and Project Based Learning where students collaborate in teams to demonstrate both individual and team skills.
Action 1: More number of co-curricular and extra-curricular activities need to be organized. Action 2 : Group assignments need to be given and group discussions, debates will be organized. Action 3: Students will be encouraged to participate in project exhibitions, Poster presentations.			
PO10: Communication (Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions).			
PO10	1.43	1.51	PO is attained and target level will be increased for next program year.
Action 1: More focus on developing presentation skills. Action 2: More focus on soft skill training need to be given. Action 3: Effective research paper writing guidelines will be given through seminars/webinars.			
PO11: Project Management and Finance (Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.)			
PO11	2.30	2.12	The PO11 attainment has shown improvement compared to the previous year attainment. Still more focus needs to be given on engineering economics and financial aspects.

Action 1: To organize and manage the group activities to strengthen managerial skills, time and finance management.
Action 2: Students need to be given more opportunities to participate in various technical events like Hackathon, Drone and Robo Competitions.

PO12: Life-long Learning (Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.)

PO12	1.69	1.83	PO is attained and target level will be increased for next program year.

Action 1: Awareness on latest technologies and trends need to be created through expert lectures, workshops and Industrial visits.
Action 2: More number of students to be encouraged to enroll for training / certification courses/ practical on virtual labs.

PSO1: Analyze Design and test Analog and Digital circuits and systems for given application.

PSO1	1.83	1.68	The PSO1 attainment has shown improvement compared to the previous year attainment value. Students lack in applying fundamental concepts to practical aspects.

Action 1: Hands on Workshops need to be organized.
Action2: Students will be encouraged to use open ware and licensed softwares.
Action 3: Students will be encouraged to participate in events like project competition, Hackathon, Unnat Bharat Abhiyan etc

PSO2: Implements technical blocks of hardware – software co-design for Embedded & Robotics automation application.

PSO2	1.62	1.58	There is an improvement in PSO2 attainment as compared to the previous year attainment. Still students failed to integrate knowledge gained through various courses for system building and its implementation.

Action 1: Students need to undertake more projects in the domain of robotics and embedded systems.
Action 2: Students need to be encouraged to participate actively in events like project competition, Hackathon, Unnat Bharat Abhiyan.

Actions 3: Students will be encouraged to participate in software training programs.

PSO3: Apply knowledge of E & TC system for social and environmental problems as a individualmember or leader of diverse team in multidisciplinary settings

PSO3	1.74	1.78	PSO is attained and target level will be increased for next program year.

Action 1: More activities to be organized through student clubs (Drone, Robo, etc.) and more participation in events at National level.

Action 2: Students need be encouraged to participate in events like project competition, Hackathon, NSS, Unnat Bharat Abhiyan, etc.

7.2	Academic Audit and actions taken thereof during the period of Assessment	10

AISSMS COE has established a well-defined Internal Quality Assurance System and every effort has been taken to address all the quality attributes of technical education for the overall professional and holistic development of students. A variety of academic, administrative, co-curricular and extra-curricular activities are carried out at Institute and department level, which helps in improving the quality of education imparted.

For the sustenance and continuous improvement in quality for achieving academic excellence, the Institute has adopted certain quality management strategies and has developed a methodology for auditing different academic and administrative quality aspects.

For effective monitoring of academic activities, the Program Assessment Committee (PAC) was formed at department level. Later on, it was revised as Program Assessment and Quality Improvement committee (PAQIC). PAQIC committee consists of Head of Department as Chairman, Module Coordinators, Industry Institute Coordinator and Exam Coordinator.

PAQIC oversees academic audits at the department level on syllabus coverage, laboratory work completed, student's performance in internal and external exams, and activity planning based on feedback, such as course end surveys and exit surveys. External audits are conducted by an external audit committee in addition to internal audits.

PAQIC verifies course coordinators course files as well as other outcome-oriented documents for each course, such as test papers and assignments to ensure that questions satisfy the desired learning level as per Blooms taxonomy. PAQIC committee also monitors conduction of supporting activities like Industrial Visits, Expert Lectures, Workshops, Projects, and Internships etc.

PAQIC meeting is conducted twice in semester, one at the beginning and the other in the mid semester, in which the requisite suggestions may be given. The compliance required is brought to the notice of the concerned person or team and corrective action is suggested and monitored again at a predetermined interval.

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Department of Electronics and Telecommunication

Circular regarding Programme Assessment Committee

Date: 17 June 2019

The Program Assessment Committee (PAC) is formed for effective monitoring of academic activities of E & TC Engineering department. The following are the members of PAC w.e.f. Academic year 2019-20.

Program Assessment Committee:

Sr No	Name of the staff member	Portfolio
1	Dr D G Bhalke	Chairman
2	Mrs K B Chaudhari	Coordinator
3	Mr. S B Dhekale	Module coordinator (Hardware and Software Design)
4	Mr. A Y Kazi	Module coordinator (Instrumentation, Power, and Control)
5	Mr. N P Mavale	Module coordinator (Skill Development and HSS)
6	Ms. V D Nagrale	Module coordinator (VLSI and Embedded Systems)
7	Mrs Y P Lad	Module coordinator (Communication)
8	Ms V V Deshmukh	Module coordinator (Signal Processing)
9	Mrs R R Itkarkar	Module coordinator (Project)

Roles and Responsibilities of PAC Committes are as follows.

- Create an annual schedule of assessment activities, plans, and inspection period.
- Review program annual assessment plans and reports and provide recommendations.
- Oversee implementation of learning outcomes (CO, PO, PSO) assessment plans by department and programs.
- Track the results of Course Outcomes, Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Instructional Goals (PEOs), and plan the steps required to achieve POs, PSOs and PEOs.
- Check quality of Question Papers, and learning levels.
- Scheduling of inspection period to ensure assessment of POs and PSOs in a valid time period.
- Preparing periodic program activity reports, progress reports, status reports or other special management reports.

Figure 7.2.1: Circular regarding PAC (page1)

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- Provide support, workshops and consultation with faculty and program leaders regarding learning outcomes assessment
- Motivate the faculty and students to attend conferences, create programs, job models, publish papers and participate in research activities.
- Interact with stakeholders and DAB to facilitate the achievement of POs, PSOs, and PEOs, maintain track record and current status.

The committee's analysis of results should be centered around following objectives:

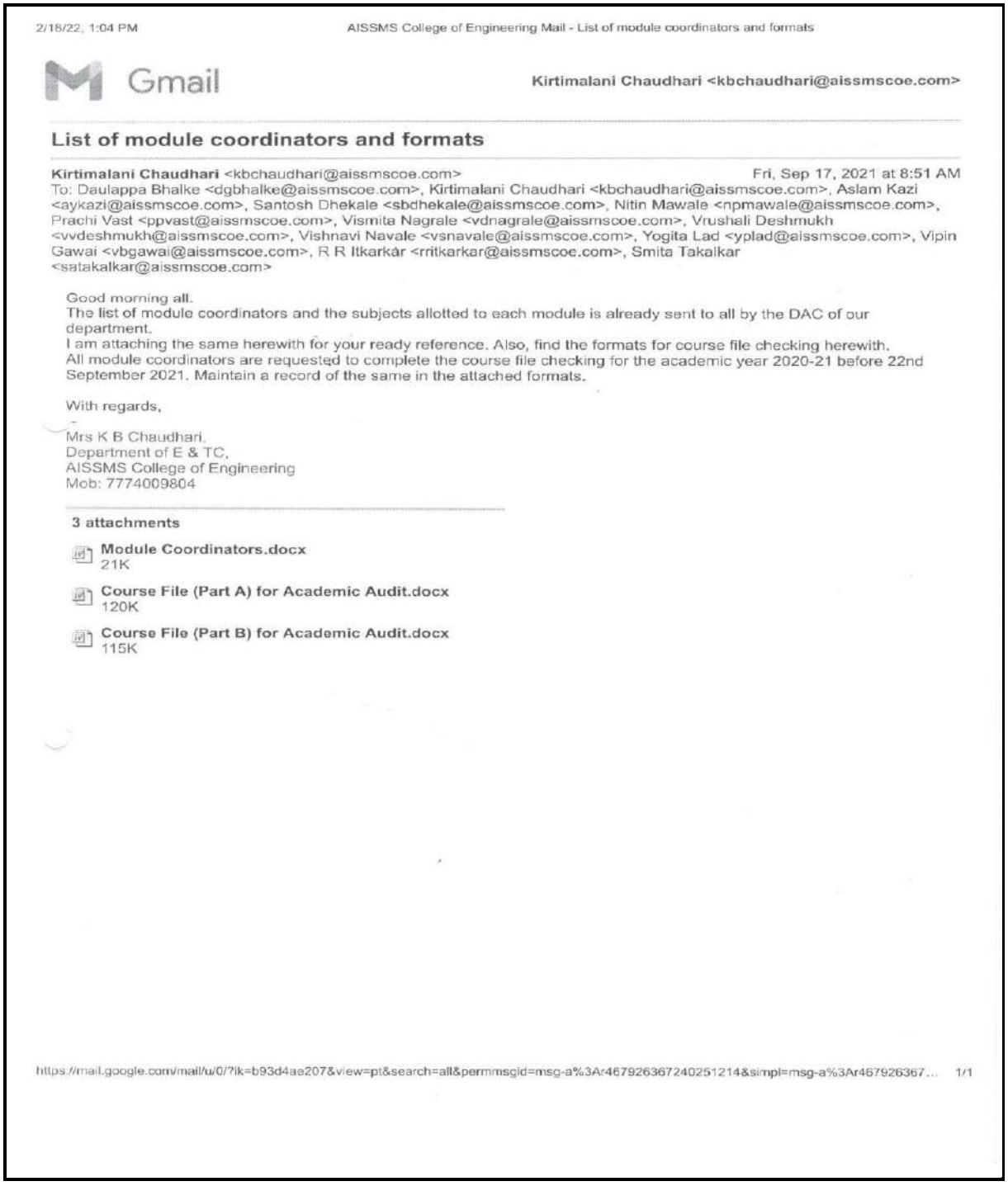
- Opportunities provided by current program structure and elective courses for student learning
- Fulfillment of learning objectives
- Sufficiency of current means of assessment to accurately measure student learning on the defined outcomes
- Attainment of expected student performance
- Specific action required in order to address the expectation gap

(changes in teaching strategies, concept emphasis, assignments, etc. vs. substantive program changes.)

Dr.D.G. Bhalke
HOD(E&TC)

CC: Principal, AISSMSCOE Pune
Central NBA Coordinator
Office File
Dept NBA Coordinator
Mrs K B Chaudhari
Mr. S B Dhekale
Mr. A Y Kazi
Mr. N P Mavale
Ms. V D Nagrale
Mrs Y P Lad
Ms V V Deshmukh
Mrs R R Itkarkar

Figure 7.2.2: Circular regarding PAC (page2)



2/18/22, 1:04 PM AISSMS College of Engineering Mail - List of module coordinators and formats

Gmail Kirtimalani Chaudhari <kbchaudhari@aissmscoe.com>

List of module coordinators and formats

Kirtimalani Chaudhari <kbchaudhari@aissmscoe.com> Fri, Sep 17, 2021 at 8:51 AM
To: Daulappa Bhalke <dgbhalke@aissmscoe.com>, Kirtimalani Chaudhari <kbchaudhari@aissmscoe.com>, Aslam Kazi <aykazi@aissmscoe.com>, Santosh Dhekale <sbdhekale@aissmscoe.com>, Nitin Mawale <npmawale@aissmscoe.com>, Prachi Vast <ppvast@aissmscoe.com>, Vismita Nagrale <vdnagrale@aissmscoe.com>, Vrushali Deshmukh <vvdeshmukh@aissmscoe.com>, Vishnavi Navale <vsnavale@aissmscoe.com>, Yogita Lad <yplad@aissmscoe.com>, Vipin Gawai <vbgawai@aissmscoe.com>, R R Itkarkar <rritkarkar@aissmscoe.com>, Smita Takalkar <satakalkar@aissmscoe.com>

Good morning all.
The list of module coordinators and the subjects allotted to each module is already sent to all by the DAC of our department.
I am attaching the same herewith for your ready reference. Also, find the formats for course file checking herewith.
All module coordinators are requested to complete the course file checking for the academic year 2020-21 before 22nd September 2021. Maintain a record of the same in the attached formats.

With regards,

Mrs K B Chaudhari,
Department of E & TC,
AISSMS College of Engineering
Mob: 7774009804

3 attachments

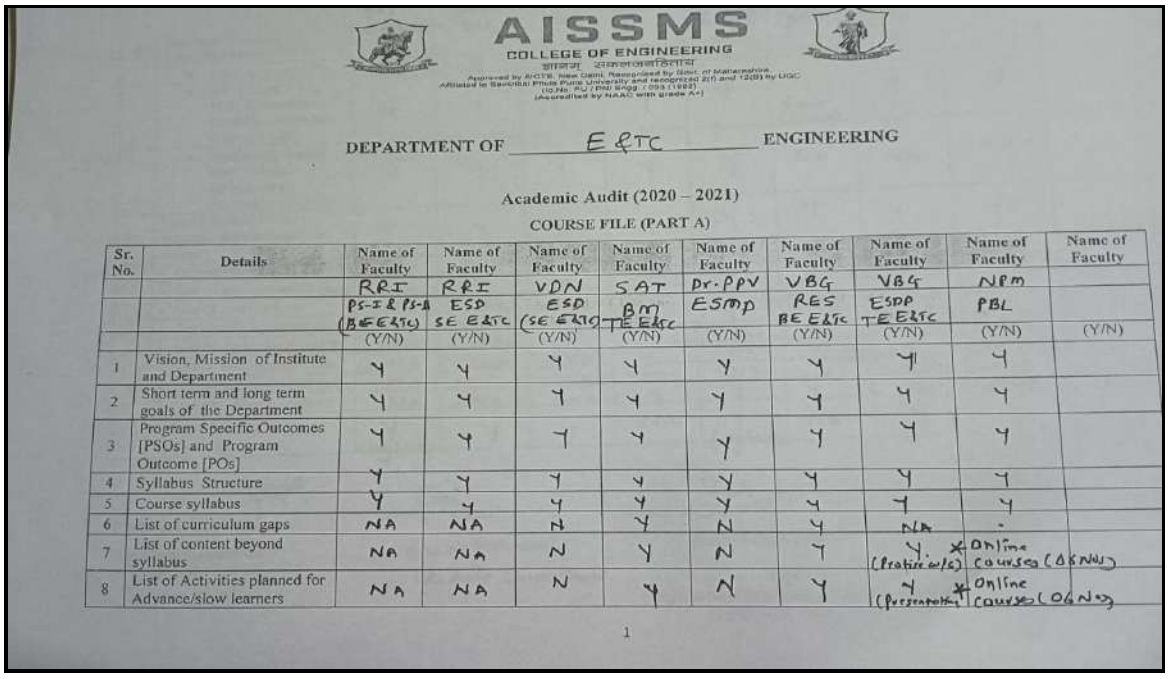
Module Coordinators.docx
21K

Course File (Part A) for Academic Audit.docx
120K

Course File (Part B) for Academic Audit.docx
115K

https://mail.google.com/mail/u/0/?ik=b93d4ae207&view=pt&search=all&permmsgid=msg-a%3Ar4679263672402512 14&simpl=msg-a%3Ar467926367... 1/1

Figure 7.2.3: Mail regarding list of Module Coordinators and Course file checking



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DEPARTMENT OF E&TC ENGINEERING

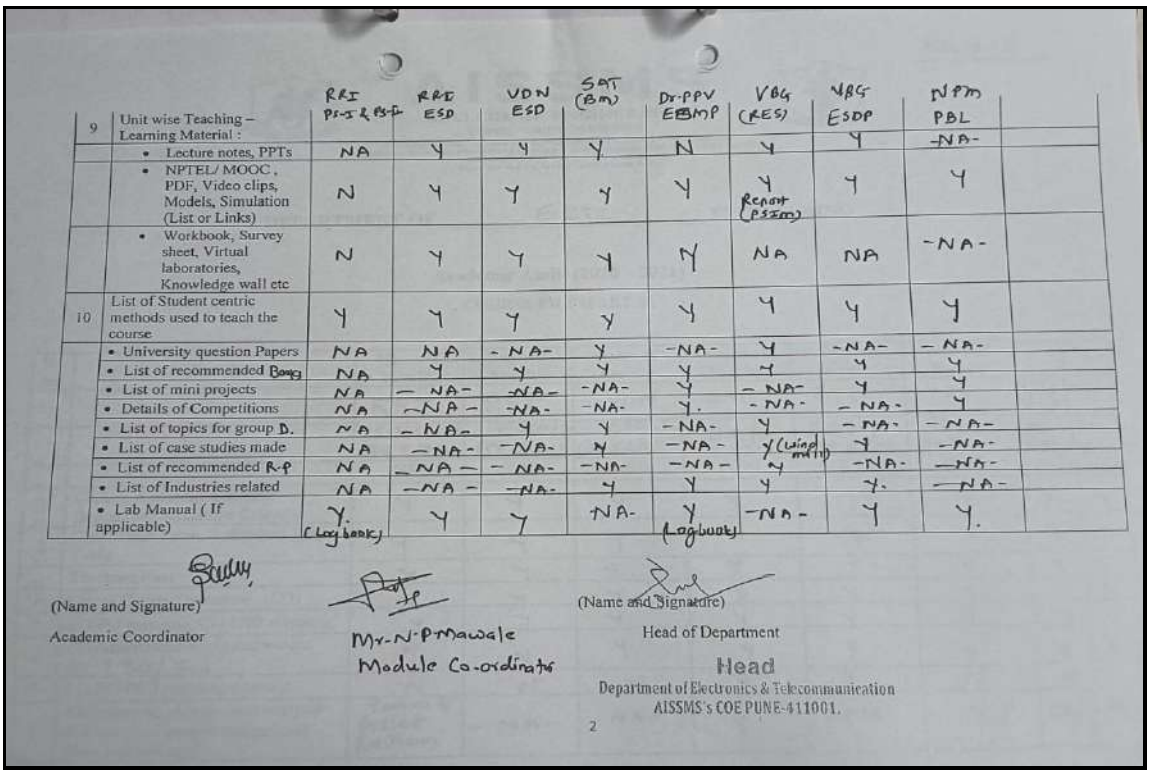
Academic Audit (2020 – 2021)

COURSE FILE (PART A)

Sr. No.	Details	Name of Faculty	Name of Faculty	Name of Faculty	Name of Faculty	Name of Faculty	Name of Faculty	Name of Faculty	Name of Faculty	Name of Faculty
		RRI	RRI	VDN	SAT	Dr-PPV	VBG	VBG	NPM	
		PS-I & PS-II (BE E&TC)	ESD SE E&TC	ESD (SE E&TC)	BM TE E&TC	ESMP	RES BE E&TC	ESDP TE E&TC	PBL	
		(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)
1	Vision, Mission of Institute and Department	Y	Y	Y	Y	Y	Y	Y	Y	
2	Short term and long term goals of the Department	Y	Y	Y	Y	Y	Y	Y	Y	
3	Program Specific Outcomes [PSOs] and Program Outcome [POs]	Y	Y	Y	Y	Y	Y	Y	Y	
4	Syllabus Structure	Y	Y	Y	Y	Y	Y	Y	Y	
5	Course syllabus	Y	Y	Y	Y	Y	Y	Y	Y	
6	List of curriculum gaps	NA	NA	N	Y	N	Y	NA	-	
7	List of content beyond syllabus	NA	NA	N	Y	N	Y	Y. (Practicals) * Online courses (06 Nos)		
8	List of Activities planned for Advance/slow learners	NA	NA	N	Y	N	Y	Y (Presentation) * Online courses (06 Nos)		

1

Figure 7.2.4: Sample Course File Checking Report (Page 1)



		RRI PS-I & PS-II	RRI ESD	VDN ESD	SAT (BM)	Dr-PPV EBMP	VBG (RES)	VBG ESDP	NPM PBL
9	Unit wise Teaching – Learning Material :								
	• Lecture notes, PPTs	NA	Y	Y	Y	N	Y	Y	-NA-
	• NPTEL/ MOOC , PDF, Video clips, Models, Simulation (List or Links)	N	Y	Y	Y	Y	Y (Report PSEmp)	Y	Y
	• Workbook, Survey sheet, Virtual laboratories, Knowledge wall etc	N	Y	Y	Y	Y	NA	NA	-NA-
10	List of Student centric methods used to teach the course	Y	Y	Y	Y	Y	Y	Y	Y
	• University question Papers	NA	NA	- NA-	Y	-NA-	Y	-NA-	- NA-
	• List of recommended Books	NA	Y	Y	Y	Y	Y	Y	Y
	• List of mini projects	NA	- NA-	-NA-	-NA-	Y	- NA-	Y	Y
	• Details of Competitions	NA	-NA-	-NA-	-NA-	Y.	- NA-	- NA-	Y
	• List of topics for group D.	NA	- NA-	Y	Y	- NA-	Y	- NA-	- NA-
	• List of case studies made	NA	-NA-	-NA-	N	-NA-	Y (using matlab)	Y	-NA-
	• List of recommended R-P	NA	- NA-	- NA-	-NA-	-NA-	Y	-NA-	-NA-
	• List of Industries related	NA	-NA-	-NA-	Y	Y	Y	Y.	-NA-
	• Lab Manual (If applicable)	Y. (Log book)	Y	Y	NA-	Y (Log book)	-NA-	Y	Y.

(Name and Signature)
Academic Coordinator

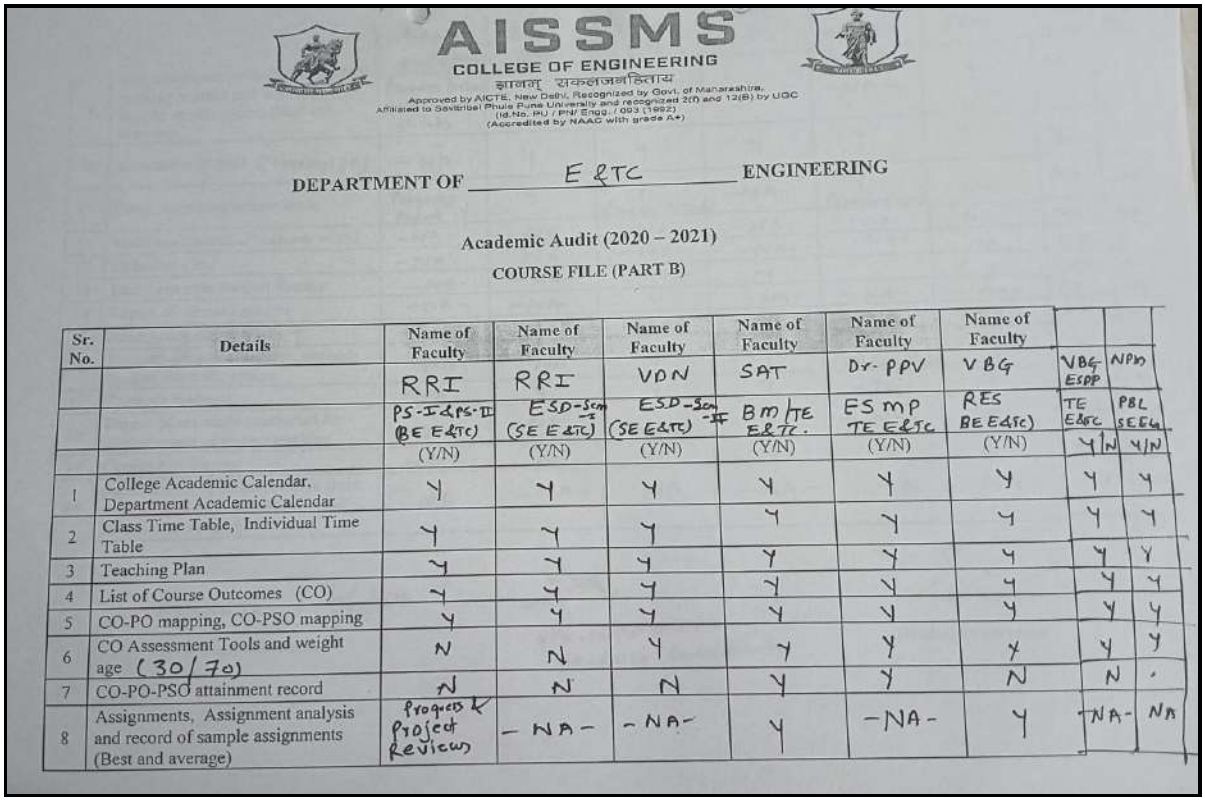
Mr-N-P-Mawale
Module Co-ordinator

(Name and Signature)
Head of Department

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

2

Figure 7.2.5: Sample Course File Checking Report (Page 2)



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(Accredited by NAAC with grade A+)

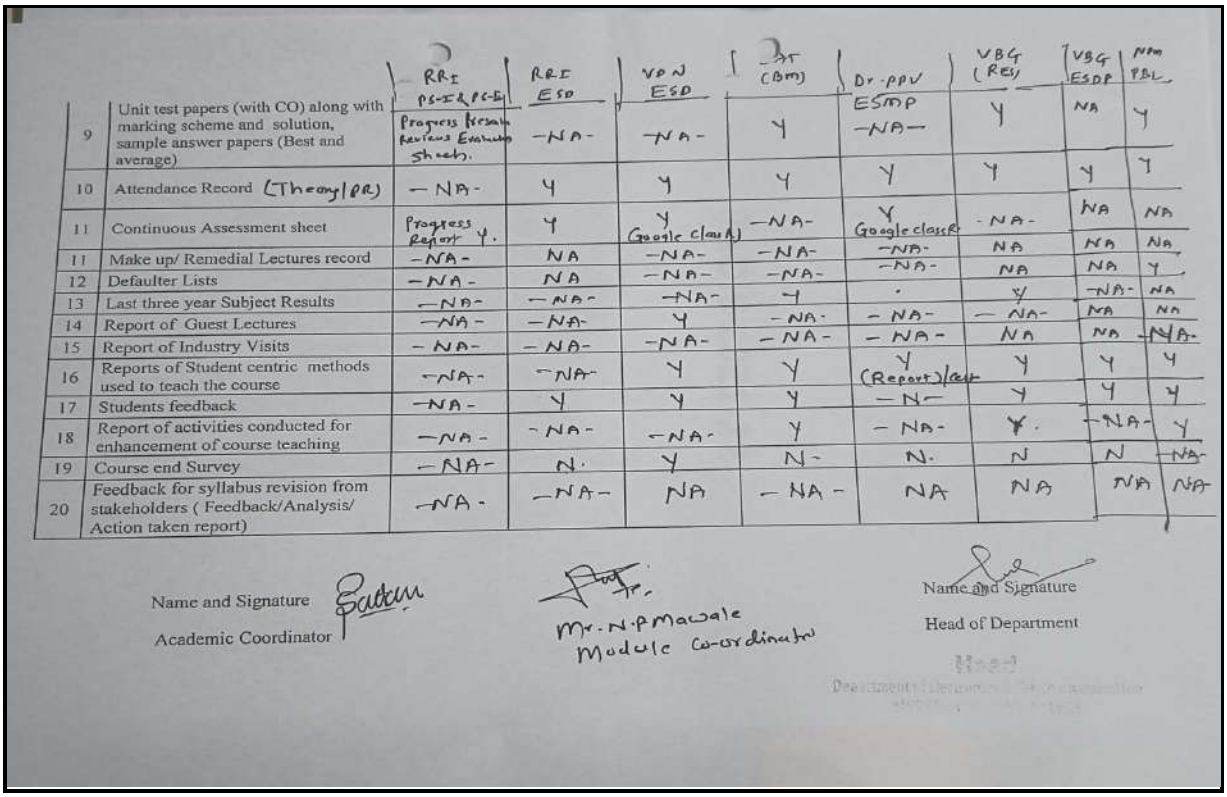
DEPARTMENT OF E&TC ENGINEERING

Academic Audit (2020 – 2021)

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		
		RRI	RRI	VDN	SAT	Dr. PPV	VBG	VBG ESDP	NPM
		PS-I&PS-II (BE E&TC)	ESD-Sem I (SE E&TC)	ESD-Sem II (SE E&TC)	BM/TE E&TC.	ESMP TE E&TC	RES BE E&TC)	TE E&TC	PBL SE E&TC
		(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)	Y/N	Y/N
1	College Academic Calendar, Department Academic Calendar	Y	Y	Y	Y	Y	Y	Y	Y
2	Class Time Table, Individual Time Table	Y	Y	Y	Y	Y	Y	Y	Y
3	Teaching Plan	Y	Y	Y	Y	Y	Y	Y	Y
4	List of Course Outcomes (CO)	Y	Y	Y	Y	Y	Y	Y	Y
5	CO-PO mapping, CO-PSO mapping	Y	Y	Y	Y	Y	Y	Y	Y
6	CO Assessment Tools and weight age (30/70)	N	N	Y	Y	Y	Y	Y	Y
7	CO-PO-PSO attainment record	N	N	N	Y	Y	N	N	.
8	Assignments, Assignment analysis and record of sample assignments (Best and average)	Progress & Project Review	- NA -	- NA -	Y	- NA -	Y	NA-	NA

Figure 7.2.6: Sample Course File Checking Report (Page 3)



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

Name and Signature
Academic Coordinator

Mr. N. P. Mawale
Module Co-ordinator

Name and Signature
Head of Department

Figure 7.2.7: Sample Course File Checking Report (Page 4)

Department of Electronics and Telecommunication Engineering

PROGRAMME ASSESSMENT AND QUALITY IMPROVEMENT COMMITTEE
Academic Year: 2021-22 Term I
Meeting:1

Minutes of Meeting

Following member were present for the meeting held on 28/09/2021 at 4.00 PM.

Dr. D G Bhalke	Chairman	Mrs. K B Chaudhari	NBA Coordinator
Mr. S B Dhekale	Academic coordinator Module coordinator	Mr. N P Mawale	Module coordinator
Mrs. Y P Lad	Exam Coordinator Module coordinator	Dr. Mrs. P P Vast	Module coordinator
Mrs. R R Itkarkar	Project coordinator	Ms. V D Nagrale	Module coordinator
Mr. V B Gawai	Industry Institute Coordinator Module coordinator	Ms. V V Deshmukh	Module coordinator
Mrs. V S Navale	Faculty Member	Mrs. S A Takalkar	Faculty Member

The meeting was held to discuss the academic activities to be planned in the ongoing term, to review the academic work done and its quality in the previous year. Improvements or changes required as compared to the previous year were discussed.

The following points were discussed:

1. **Course curriculum design and finalization of CO**
   - Changes in the TE syllabus were discussed. All TE faculty members displayed the COs for their courses. After the suggestions from PAQIC, the COs were finalized.
   - The faculty were advised to identify gap in their course syllabus. Revise the mapping of COs with POs and PSOs.
   - The TE subject teachers were informed about the faculty orientation workshops planned by the BOS and the SPPU.

2. **Teaching plan and identification of weak students**
   - All subject teachers should prepare the theory and practical teaching plan
   - Pre-requisite test may be conducted in the beginning of the term. The result of pre-requisite test along with first test to be considered for identifying slow and advance learners for the course.

3. **Role of GFMs and Mentors in students counseling**
   - All the mentors were informed to counsel students for underperformance in the first class test and poor attendance.

Figure 7.2.8: PAC Minutes of Meeting

- GFMs and mentors to increase interaction with the students. They might be facing various issues at personal, family or social front.

4. **Industry expert lectures and their relevance to curriculum gap**
- Course teachers were suggested to identify the industry experts or industry for their course. Increase interaction with industry persons.
- It was suggested to prepare questionnaire along with feedback which may be filled by the students after industry expert lecture session.

5. **Discussion on Result analysis**
- Co attainment of all courses was discussed. It was observed that many courses reached the desired level of attainment. So the targets should be revised. However, because of online and objective type examination, these results may not be correct indicators of course attainment. Therefore, it was resolved not to increase the targets for the next year.
- For improvement in POs and PSO attainment level, it was decided to work on following points:
  - For PO1 to PO4, more practice on numerical be given in assignments.
  - Once the college starts offline, make students work rigorously in the practical session.
  - Use various free/ open source simulation software for practical.
  - Increase Vlab experiments.
  - The student chapter in-charges tentatively planned activities such as workshops, social activities for students.

Mrs K B Chaudhari
PAQIC Coordinator

Dr D G Bhalke
HoD, E and TC Engg.

Head
Department of Electronics & Telecommunic
AISSMS's COE PUNE-411001.

Figure 7.2.9: PAC Minutes of Meeting

Figure 7.2.10: PAQIC Meeting Photographs

Figure 7.2.11: PO-PSO attainment discussion in PAQIC

7.3	Improvement in Placement, Higher Studies and Entrepreneurship	10

Assessment is based on improvement in:

- Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions
- Entrepreneurs

Placement, Higher Studies and Entrepreneurship for past Three years

Table 7.3.1: Placement, Higher Studies and Entrepreneurship for past Three years details

Item	CAY 2022-23	CAYm1 2021-22	CAYm2 2020-21	CAYm3 2019-20
Total No. of Final Year Students	78	62	64	--
No. of students placed in companies **or** Government Sector	36	53	58	--
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.)	03	03	02	--
No. of students turned entrepreneur in engineering/technology	00	00	00	--

Placement: number, quality placement, core industry, pay packages etc.

1. Number

The number of placements is increasing year after year. Because of the pandemic, there was a revolution in digitization, which provided computer engineering students with several opportunities to work in the IT industry for a fair wage. Still, a significant number of students are guided and assisted in achieving their desired career path, which includes placements in government and corporate sectors, higher education, and entrepreneurship.

2. Quality placement

Placements are improving year after year as the maximum income offered in the software industry rises. Industries of all levels are recruiting students, and students have a variety of options. Many students are getting opportunities to join startups in order to get a feel and experience before starting their own startups.

3. Core industry

Placements at core companies are improving, and students are being recruited by core industries with a good reputation in the community. This gives students experience working with known multinational corporation while also allowing good Small and medium-sized enterprises to recruit students on a regular basis. This fosters trust between the industry and students. Internships are available in several industries for students. This is forming a solid link, and mutual benefits are being reaped. Students can design their career path in an organized manner and select relevant electives offered by the University. Their choices are now more informed, guided, and experienced.

4. Pay packages

Pay packages are an essential factor in company selection, but students are also searching for interesting employment and a good reputation in the community. As a result, many talented students pursue advanced degrees or start their own businesses. Packages and incentives are increasing day by day, and as the pandemic situation improves, recruiters with big wage packages are showing increased interest.

AVERAGE PACKAGE:

Table 7.3.2: Average Package for past Three years details

Academic Year	Number of students placed	Average Package (LPA)
2020-2021	58	4.5
2021-2022	53	4.5
2022-2023	36	6.36

Table 7.3.3: Name of Company and Packages for Academic Year-2020-21

Academic Year 2020-21		
Sr No	**Name of the Company**	**Packages (LPA)**
1	Honeywell	6.00
2	Thirdware Solution, Digital India Corporation	4.56
3	Accenture	4.50
4	Accion Labs India Private Limited	4.50
5	Jio Platforms Limited & Digital India Corporation	4.50
6	Cognizant	4.10
7	Johnson & Control	4.00
8	Infosys	4.00
9	Capgemini	3.80
10	Tata Consultancy Services	3.60
11	DSC Technology	3.60
12	FUJITSU	3.50
13	WIPRO	3.50
14	Nihilent Technologies	3.50
15	L&T Infotech Ltd.	3.50
16	Hexaware	3.50
17	Tech Mahindra	3.25
18	BirlaSoft Ltd.	3.25

Table 7.3.4: Name of Company and Packages for Academic Year-2021-22

Academic Year 2021-2022		
Sr No	**Name of the Company**	**Packages (LPA)**
1	Hexaware	6.00
2	Forbes Marshall	6.00
3	Harman Connected Services	5.50
4	Siemens	5.00
5	Volkswagan	5.00
6	Cognizant	4.50
7	Nagarro Software	4.50
8	Bristlecon	4.25
9	Ruddar Analytics	4.20
10	Zensor	4.00
11	KPIT	4.00
12	Infosys	4.00
13	L&T Infotech	4.00
14	Nihilant Technologies	4.00
15	Capgemini	3.80
16	Wipro	3.60
17	Vodafone	3.60
18	Tata Consultancy Services	3.36
19	Datacapten Technologies PVT. Ltd.	3.00

Table 7.3.5: Name of Company and Packages for Academic Year-2022-23

Academic Year 2022-23		
Sr No	**Name of the Company**	**Packages (LPA)**
1	Bobble AI	7.92
2	Tata Communication	7.70
3	Tata Consultancy Services	7.60
4	Hewlett Packard	5.50
5	L&T Infotech	5.00
6	Bristlecone	4.75
7	Johnson Controls	4.50
8	Cognizant	4.00
9	Tech Mahindra	3.80

Table 7.3.6: Highest Package for Academic Year 2020-21, 2021-22, 2022-23

Academic Year	Highest Package (LPA)
2020-2021	6.00
2021-2022	6.00
2022-2023	7.92

Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions

Table 7.3.6: Number of students taken admission for higher studies

Academic Year	Number of students taken admission for higher studies
2020-2021	02
2021-2022	03
2022-2023	03

7.4	Improvement in the quality of students admitted to theprogram	10

Table 7.4.1: National Level Entrance Examination, State/University Level entrance Test, Lateral Entrydetails

Item		CAY 2022-23	CAYm1 (2021-22)	CAYm2 (2022-23)
National Level Entrance Examination(JEE)	No. of Students admitted	09	09	09
	Opening Score/Rank	88	83	86
	Closing Score/Rank	86	83	83
State/University Level entrance Test(MHT-CET)	No. of Students admitted	57	59	60
	Opening Score/Rank	96	95	92
	Closing Score/Rank	91	77	85
Lateral Entry details Diploma- Direct Second Year Admission	No. of Students admitted	09	09	18
	Opening Score/Rank	88	96	90
	Closing Score/Rank	83	91	66
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Maths)		--	--	72.31

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DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION VIII

First Year Academics

CRITERION 8	First Year Academics	50

8.1	First Year Student-Faculty Ratio (FYSFR)	5

Data for first year courses to calculate the FYSFR:

Year	Number of Students (Approved Intake Strength)	Number of Faculty Members (Considering Fractional Load)	FYSFR	*Assessment = (5 ×20)/ FYSFR (Limited to Max. 5)
2022-23	660	32	20.63	4.85
2021-22	660	29	23.76	4.21
2020-21	660	31	21.29	4.70
Assessment =				**4.59**

Table 8.1

***Note:** If FYSFR is greater than 25, then assessment equal to zero.

8.2	Qualification of Faculty Teaching First Year Common Courses	5

Assessment of qualification = (5*x* +3*y*)/*RF*, *x*= Number of Regular Faculty with Ph. D, *y* = Number of Regular Faculty with Post-graduate qualification *RF*= Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

Year	***x***	***Y***	***RF***	**Assessment of faculty qualification (5*x* + 3*y*)/*RF***
2022-23	8	21	33	3.12
2021-22	8	19	33	2.94
2020-21	7	17	33	2.61
			Average Assessment	**2.89**

Table 8.2

8.3	First Year Academic Performance	10

Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x (number of successful students/number of students appeared in the examination) = Successful students are those who are permitted to proceed to the second year.

A.Y.	Total No. of Appeared Students	Total No. of Clear Pass Students	Total No. of students in ATKT	Total No. of Fail Students	Total No. of successful Students	Mean SGPA	API
2021-22	68	36	32	0	68	7.44	7.44
2020-21	67	63	4	0	67	8.54	8.54
2019-20	57	50	5	2	55	7.38	7.12
Average API:							**7.7**

Table 8.3: Average SGPA of all students clear passed and passed with ATKT student

8.4	Attainment of Course Outcomes of first year courses	10

8.4.1: Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

(Examples of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams assignments, presentations, tutorial sheets etc.

Assessment Process Details

Process Details: Assessment of Course Outcome

Assessing Course Outcomes (COs) is an important part of evaluating the effectiveness of a course and determining whether it has achieved its intended goals. This process is carried out using following steps:

1. Define the Course Outcome statements: The first step is to clearly define the CO statements of the course using Bloom's Taxonomy. Domains of COs such as cognitive, psychomotor or affective are identified while framing the CO statements. This includes identifying the specific knowledge, skills, and abilities that students are expected to gain by the end of the course. For each course 4-6 measurable CO statements are defined.

2. Identify and Implement**:** Once the CO statements have been defined, the next step is to identify and implement assessment tools that measure the extent to which outcomes are achieved.

3. Collect data: Collect data from students' performance on the assessment tools. This is done by grading exams, projects and through surveys.

4. Analyze data: Once data has been collected, it is analyzed to determine how well students have achieved the course outcomes.

5. Use data to identify areas of improvement for the course.

Assessment Tools

Assessing CO is an iterative process that involves continuous refinement and improvement. Assessment tools are designed to evaluate the attainment of the COs. It is important to select

assessment tools that align with the specific COs of the course and to use multiple assessment tools to provide a comprehensive evaluation of student learning. The assessment tools are chosen based on the specific COs being assessed and the teaching methodologies being used in the course.

The evaluation of the COs involves the use of both direct and indirect assessment tools, with greater weightage assigned to the former. Specifically, 80% weightage is given to direct assessment tools, which include both internal assessments (20%) and external assessments (80%), whereas indirect assessment tools are assigned a weightage of 20%. The performance of students in both internal and external assessments is taken into account, with appropriate weightage assigned to each.

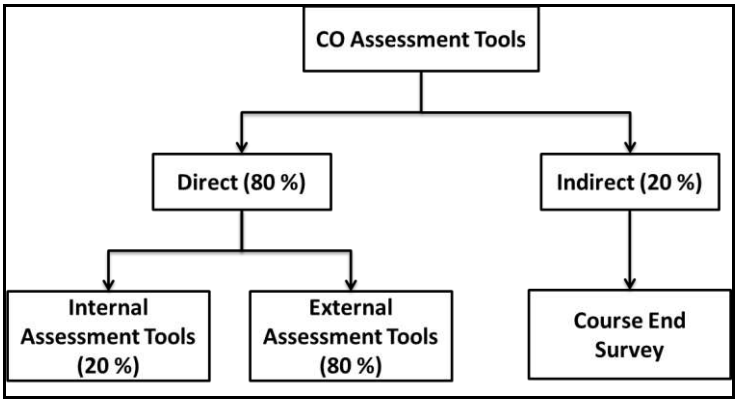

Figure 8.4.1.1: Assessment tools and its weightage

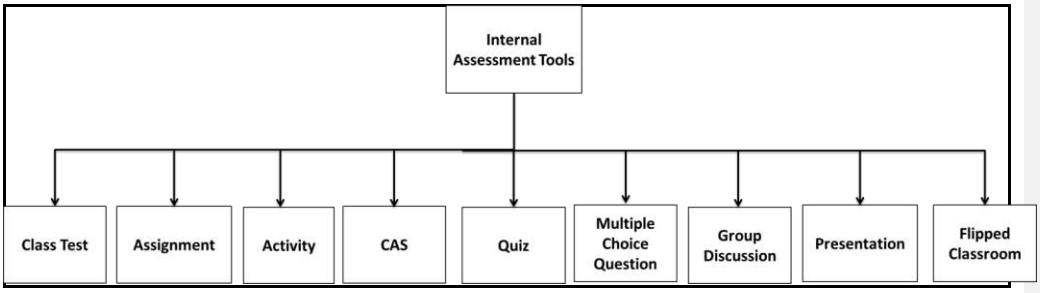

Figure 8.4.1.2: Internal Assessment tools

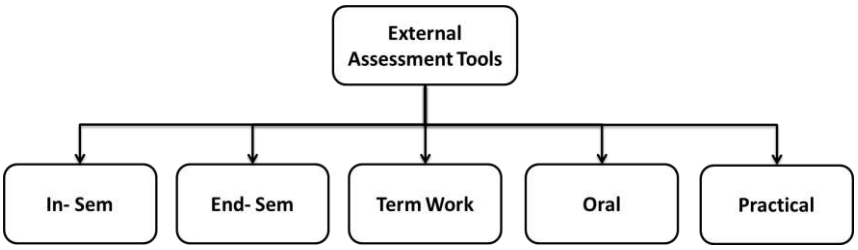

Figure 8.4.1.3: External Assessment tools

Direct Assessment Tools:

Internal Assessment:

In order to ensure that students are keeping up with the course content, primarily class tests and assignments are used as effective measures of their progress. The course is divided into six units, each of which is evaluated through appropriate assessment tools. Based on domain of COs such as cognitive, psychomotor or affective the assessment tool is selected and is mapped to the specific CO of the course. The direct internal assessment tools are class tests, quiz, multiple choice questions, group discussion, assignments, presentation, flipped classroom etc.

Practical sessions offer students a valuable opportunity to gain hands-on experience in applying the concepts they learn in class and to develop the skills necessary for success in their field of study. To assess students' performance in these practical aspects of the course, a Continuous Assessment Sheet (CAS) is used. This sheet evaluates several parameters, including regularity, quality of experiment write-ups, understanding and overall performance during each experiment.

The project work of the student is assessed through periodic project reviews. These reviews are conducted by the departmental project progress monitoring committee. Through reviews, teachers are able to track students' progress and provide constructive feedback to help them improve their skills and understanding of the project work.

External Assessment:

University Examination: The university conducts both in-semester and end-semester examinations to evaluate students understanding of the course contents. In-semester and end-semester examination covers the entire syllabus and evaluates all COs. These examinations are designed to test students knowledge and comprehension of the course contents, as well as their ability to apply that knowledge to real-world situations.

Practical and tutorial sessions conclude in an end-semester examination, which may take the form of a term work, oral examination, or practical examination. This evaluation is conducted by both an external and internal examiner. This ensures impartial and objective assessment. Through this examination, students are tested on their ability to apply the knowledge and skills they have acquired throughout the course to practical scenarios.

Indirect Assessment Tool:

A Course end survey is used as indirect assessment tool which is a feedback tool used to gather information from students at the conclusion of a course. Its purpose is to assess the effectiveness of the course. Typically administered in the final week of the course, the survey covers course content in the form of CO statements.

8.4.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels

Program shall have set Course Outcome attainment levels for all courses.

(The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect to the Course Outcomes of a course in addition to the performance in the University examination)

Evaluation of CO Attainment by Direct Assessment Tool

The evaluation of CO attainment by assessment tool involves a systematic process of collecting and analysing data to determine the extent to which the course outcomes have been met. The following steps are taken for this evaluation:

a) Choose an appropriate assessment tool: There are various internal and external assessment tools that are used. The choice of tool is aligned with domain of the COs.
b) Determine assessment criteria: The assessment criteria are clearly defined and communicated to students. This will help to ensure that students understand what is expected from them and how their performance will be evaluated.
c) Analyse results: The results of the assessment is analysed to determine the extent to which the course outcomes have been met. This analysis can be incorporated in future instructional strategies.

Attainment Levels

Attainment levels for COs are a measure of students achievement in meeting the course objectives. These levels are assessed using a variety of tools, and the attainment level may be stated as a percentage of students expected to achieve a certain threshold of marks. The attainment level is then measured as the actual percentage of students who meet or exceed the set threshold.

The defined attainment levels are;

Attainment Level 1(A1): 40% to less than 60% students scoring more than 60% marks out of the relevant maximum marks.

Attainment Level 2(A2): 60% to less than 70% students scoring more than 60% marks out of the relevant maximum marks.

Attainment Level 3(A3): 70% and more than 70% students scoring more than 60% marks out of the relevant maximum marks.

Though 40% to 60% students are considered for attainment level 1, the percentage may vary from course to course. The course teacher decides this level from previous university examination results and the difficulty level of the course. Percentage of students for level 2 and 3 is changed subsequently

.

Mapping of COs with Assessment Tools

Mapping COs with assessment tools is an important part of the assessment process and can help to ensure that student performance is evaluated consistently and effectively.

Weighted average method

The steps involved in calculation of CO attainment are as follows:

i. Decide the assessment tools to be employed in calculating CO attainment. These tools are based on the domain of course outcome.

ii. Establish the level of attainment for each tool used in the process, which will be measured on a scale of 1 to 3.

iii. Assign weights to each tool based on its maximum marks. The weight for each tool will be calculated as the ratio of its maximum marks to the total marks assigned for all selected tools.

iv. Multiply each tools level of attainment by its corresponding weight.

v. Sum up the weighted attainment values for all the tools to get CO attainment.

For example, if three tools are used with maximum marks assigned as 20, 30, 40 (Total Maximum Marks = 90), and the CO attainment levels for the tools are 2, 1, and 3 then weights assigned are as (20/90), (30/90) and (40/90), respectively, based on the maximum marks for each tool in measuring the CO attainment.

To calculate the weighted average CO attainment, following formula is used:

Σ weightage*CO attainment

Weighted average CO attainment = (Tool 1 attainment * Weight 1) + (Tool 2 attainment * Weight 2) + (Tool 3 attainment * Weight 3) + ...

In the example above, the weighted average CO attainment would be:

Weighted average CO attainment = (2 * 20/90) + (1 * 30/90) + (3 * 40/90) = 2.11

Therefore, the weighted average CO attainment for the three tools is 2.11.

Table 8.4.2.1: Mapping of Cos with Assessment Tools

Assessment Tool	Class Test 1	Assignment 1	CAS	In-Sem	Termwork	Practical
COs Mapped	CO1	CO1	CO1	CO1, CO2	All COs	All COs
Maximum Marks	M1	M2	M3	M4	M5	M6
CO Attainment Level	A1	A2	A3	A1	A3	A2

Since different assessment tools are used to evaluate each CO, the average attainment of each CO will depend on the attainment level obtained from each tool. For instance, the average attainment level of CO1 will depend on the attainment levels obtained through various internal assessment tools, such as class test 1 or assignment 1 or CAS or other activity, as well as external assessment tools, such as In-Sem, End Sem, Practical/Oral examination, and Term work. If an assessment tool is used for multiple COs, the maximum marks can be distributed equally among those COs.

Table 8.4.2.2: CO Attainment calculations for Internal Assessment Tools

Assessment Tool	Class Test 1	Assignment 1	CAS	
Marks for CO1	M1	M2	M3	Mint=M1+M2+M3
Weightage	WT1=M1/Mint	WAs1=M2/Mint	WCAS=M3/Mint	
CO Attainment	A1	A2	A3	
Average CO Attainment (Aint)	**Aint =WT1*A1+WAs1*A2+WCAS*A3**			

Table 8.4.2.3: CO Attainment calculations for External Assessment Tools

Assessment Tool	In-Sem	Termwork	Practical	
Marks for CO1	M4/2	M5/6	M6/6	Mext= (M4/2)+(M5/6)+(M6/6)
Weightage	WIn=(M4/2)/Mext	WTw=(M5/6)/Mext	WPr=(M6/6)/Mext	

CO Attainment level	A1	A3	A2	
Average CO attainment (Aext)		**Aext =WIn*A1+WTw*A3+WPr*A2**		

The CO attainment level by direct tools is calculated by giving 20% weightage to the average CO attainment level obtained from internal assessment tools and 80% weightage to the average CO attainment level obtained from external assessment tools.

Direct CO attainment for CO1 = 0.2 * Aint + 0.8 * Aext

CO Attainment Level by Indirect Assessment Tool

At the end of each course, a course end survey form is created with questions directly linked to the COs. Responses to these questions are collected through forms that typically use a 1-3 scale (with low to high ratings). Average of all the responses to respective CO is considered as CO attainment. The data is then used to compute the indirect CO attainment, which is given a weightage of 20% in the overall CO attainment assessment.

Overall CO Attainment Level for Course

Thus, overall CO attainment for the course using all the tools is

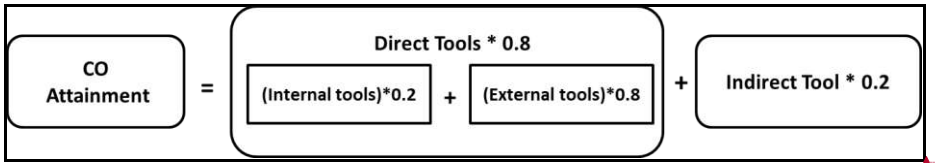

Figure 8.4.2.1: External Assessment tools

Attainment of Program Outcomes and Program Specific Outcomes

Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes

Describe the assessment tools and processes used together the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate

the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

To ensure alignment of CO with Program Outcomes (PO) and Program Specific Outcomes (PSO), a bottom to top process is employed, where outcomes are cascaded from CO to PO-PSO.

Assessing PO and PSO typically involves gathering evidence of student learning, analysing that evidence, and using it to improve teaching and learning. The key steps involved in the assessment process:

1. Develop assessment criteria: Develop criteria for assessing POs and PSOs. The criteria are measurable, observable, and achievable. Develop rubrics for assessment tools.
2. Collect data: Collect data on student performance related to POs and PSOs. This includes assessment of student work and surveys from students.
3. Analyse data: Analyse the data to assess how well the program is meeting its outcomes and PSOs. This includes comparing student performance to the established criteria and identifying areas of strength and weakness.
4. Use results for improvement: Use the results of the assessment to identify areas where improvement is needed and develop strategies to address these areas.

POs and PSOs Assessment tools

POs and PSOs assessment tools are used to evaluate the overall effectiveness of a program and to ensure that it meets the required standards. The evaluation of the POs and PSOs involves the use of both direct and indirect assessment tools:

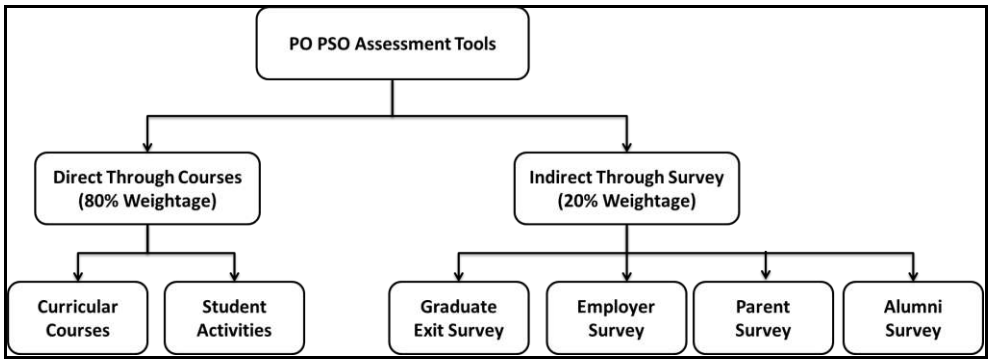

Figure 8.5.1.1: POs and PSOs Assessment tools

Direct Assessment tools:

The CO directly contributes to the assessment of POs and PSOs.

Indirect Assessment Tools:

The department conducts various activities for multidimensional growth of students. The students actively participate in social activities organised by the department and NSS cell. Students participate in various technical and cultural competitions. Department has many clubs and student chapters of professional bodies. These clubs provide a vibrant platform for students to hone their abilities.

In addition, various surveys, such as exit surveys, parent feedback, employer's feedback and student satisfaction surveys are conducted. Exit surveys are conducted with graduating students to evaluate the overall effectiveness of the program.

Attainment of POs and PSOs

Direct assessment of POs and PSOs is based on the attainment levels of COs and the degree of correlation between them.

Sample calculation for POs and PSOs attainment is described in following three steps:

Step – 1

CO Attainment and CO – POs and PSOs mapping is defined for course by correlation level low to high (1 to 3).

Table 8.5.1.1: CO- POs and PSOs Mapping

Course Outcomes	CO Attainment	PO1	PO2	PO3	PSO1
CO1	2.5	3	1		
CO2	2.8	3	2	1	1
CO3	2.3	2	2		2
CO4	1.5	2	1	1	1
CO5	2.0	1	1		
CO6	3.0	3	3		

Step – 2

Direct POs and PSOs attainment is calculated using following formula:

POs and PSOs attainment = (Level of Mapping of CO with PO/PSO * CO attainment Level) / 3

Table 8.5.1.2: POs and PSOs Attainment Calculations

Course Outcomes	CO Attainment	PO1	PO2	PO3	PSO1
CO1	2.5	=2.5*3/3	=2.5*1/3		
CO2	2.8	=2.8*3/3	=2.8*2/3	=2.8*1/3	=2.8*1/3
CO3	2.3	=2.3*2/3	=2.3*2/3		=2.3*2/3
CO4	1.5	=1.5*2/3	=1.5*1/3	1.5*1/3	=1.5*1/3
CO5	2.0	=2.0*1/3	=2.0*1/3		
CO6	3.0	=3.0*3/3	=3.0*3/3		

Step – 3

POs and PSOs attainment is calculated by taking the average of POs and PSOs attainment by each

CO attainment.

Table 8.5.1.3: Average POs and PSOs Attainment by Course

Course Outcomes	CO Attainment	PO1	PO2	PO3	PSO1
CO1	2.5	2.5	0.83		
CO2	2.8	2.8	1.87	0.93	0.93
CO3	2.3	1.53	1.53		1.53
CO4	1.5	1.00	0.50	0.50	0.50
CO5	2.0	0.67	0.67		
CO6	3.0	3.00	3.00		
Average POs and PSOs Attainment		1.92	1.40	0.72	0.99

Attainment of POs and PSOs through Indirect Tools

By combining direct and indirect tools, department gain a more comprehensive understanding of the programs effectiveness in achieving its intended learning outcomes. Graduate Exit Survey, Employer Survey and Parents Feedback are conducted at the end of the program. The department conducts surveys using a relevant questionnaire in order to assess the attainment of POs and PSOs. The questionnaire provides 5 response options, namely Excellent, Very Good, Good, Average, and Poor, which are assigned scores of 5, 4, 3, 2, and 1, respectively. The survey results are then tabulated, and the average scores for each PO and PSO are calculated. To determine the attainment level for each PO and PSO, the average score is converted to a scale of 0 to 3.

For indirect POs and PSOs attainment 20% weightage is given.

Total PO/PSO attainment = Direct Attainment by all courses * 0.8 + Indirect Attainment * 0.2

8.4.2: Record the attainment of Course Outcomes of all first year courses (5)

Program shall have set attainment levels for all first year courses.

(The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the University examination)

ACADEMIC YEAR 2021-22

Course Code	Course	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
107001	Engineering Mathematics-I	2.66	2.66	2.26	2.42	2.1	2.26
107002	Engineering Physics	1.24	1.48	1.32	1.30	1.32	1.3
102003	Systems in Mechanical Engineering	2.94	2.94	2.94	2.94	2.94	2.94
103004	Basic Electrical Engineering	0.94	1.3	1.29	1.41	1.17	1.17
110005	Programming and Problem Solving	2.45	2.45	1.93	1.79	1.93	1.91
111006	Workshop Practice	2.94	2.94	2.94	2.94		
107008	Engineering Mathematics-II	1.08	1.4	1.2	0.86	1.02	1.04
107009	Engineering Chemistry	2.9	2.9	2.9	2.9	2.9	2.9
104010	Basic Electronics Engineering	2.85	2.79	2.97	2.96	2.93	2.95
101011	Engineering Mechanics	2.95	2.95	2.95	2.95	2.95	2.95
102012	Engineering Graphics	1.81	1.74	1.81	1.81	1.52	1.49
110013	Project Based Learning	2.98	2.98	2.98	2.98	2.98	2.98

8.5	Attainment of Program Outcomes from first year courses	20

8.5.1: Indicate results of evaluation of each relevant PO and/or PSO, if applicable (15)

The relevant program outcomes that are to be addressed at first year need to be identified by the institution. Program Outcome attainment levels shall be set for all relevant POs and/or PSOs through first year courses.

(Describe the assessment processes that demonstrate the degree to which the Program Outcomes are attained through first year courses and document the attainment levels. Also include information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)

ACADEMIC YEAR 2021-22 PO Mapping Matrix

Sr. No.	Course	Course Title	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	107001	Engineering Mathematics I	3.00	2.00	1.00										1.00		
2	107002	Engineering. Physics	3.00	1.00		1.00	1.00		1.00			1.00			1.00	1.00	
3	102003	Systems in Mechanical Engineering	2.00	1.00					1.00			1.00					
4	103004	Basic Electrical Engineering	1.50	1.50	1.00		1.00								1.50	1.00	
5	110005	Programming and Problem Solving	2.00	2.00	1.60		2.00			1.00	1.00	1.00		1.00	1.67	1.33	
6	111006	Workshop	2.00	1.00	1.00			1.00									
7	107008	Engineering Mathematics II	3.00	2.00	1.00										1.00		
8	107009	Engineering Chemistry	3.00	2.00	1.00				1.00		1.00	1.00					
9	104010	Basic Electronics Engineering	2.00	1.00	1.00		1.00								2.00	1.83	1.00
10	101011	Engineering Mechanics	2.00	2.00			1.00					1.00					
11	102012	Engineering Graphics	2.00	1.00	1.00		1.00					1.00					
12	110013	Project Based Learning	2.33	1.33	1.00		2.50	1.00	1.00		2.00	1.00	1.00		1.67	1.33	1.50
Direct Attainment Target*			**2.32**	**1.49**	**1.07**	**1.00**	**1.36**	**1.00**	**1.00**	**1.00**	**1.33**	**1.00**	**1.00**	**1.00**	**1.41**	**1.30**	**1.25**
Contributing Subjects			12	12	9	1	7	2	4	1	3	7	1	1	7	5	2

Table 8.5.1

PO Attainment Matrix

ACADEMIC YEAR 2021-22 PO Mapping Matrix																
Sr. No.	**Course**	**Course Title**	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO 1**	**PSO 2**	**PSO 3**
1	107001	Engineering Mathematics I	2.39	1.60	0.80										0.80		
2	107002	Engineering. Physics	1.32	0.45		0.43	0.45		0.43			0.45			0.44	0.44	
3	102003	Systems in Mechanical Engineering	1.96	0.98					0.98			0.98					
4	103004	Basic Electrical Engineering	0.62	0.62	0.43		0.41								0.61	0.42	
5	110005	Programming and Problem Solving	1.37	1.64	1.17		1.37			0.69	0.82	0.69		0.69	1.14	0.94	
6	111006	Workshop	1.96	0.98	0.98			0.98									
7	107008	Engineering Mathematics II	1.10	0.73	0.37										0.37		
8	107009	Engineering Chemistry	2.90	1.93	0.97				0.97		0.97	0.97					
9	104010	Basic Electronics Engineering	1.94	0.96	0.98		0.93								0.96	0.96	0.98
10	101011	Engineering Mechanics	1.97	1.97			0.98					0.98					
11	102012	Engineering Graphics	1.13	0.57	0.54		0.56					0.57					
12	110013	Project Based Learning	2.31	1.32	0.99		2.48	0.99	0.99		1.98	0.99	0.99		1.65	1.32	1.49
Direct Attainment Target*			**1.75**	**1.15**	**0.80**	**0.43**	**1.03**	**0.99**	**0.84**	**0.69**	**1.26**	**0.80**	**0.99**	**0.69**	**0.85**	**0.82**	**1.24**
Contributing Subjects			12	12	9	1	7	2	4	1	3	7	1	1	7	5	2

Table 8.5.1 (b)

* Direct attainment level of a PO is determined by taking average across all courses addressing that PO. Fractional numbers may be used for example 1.55.

Note: Add PSOs; if applicable

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

PO Attainment Levels and Actions for improvement - CAY – Mention for relevant PO's

ACADEMIC YEAR 2021-22			
PO's	**Target Level**	**Attainment Level**	**Observations**
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	2.32	1.75	Attainment is 75.43% of the target value. -Clearly identify the specific concepts that need to be addressed and the desired learning outcomes.
Action 1	To enhance students' understanding and application of engineering concepts by incorporating an expert lecture.		
Action 2	To facilitate access of comprehensive study materials for all FE Engineering subjects through FE Website, thereby supporting students' learning.		
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	1.49	1.15	Attainment is 77.18% of the target value. It is essential to identify the key Engineering Physics, Basic electronics Engineering principles that require reinforcement through numerical problem-solving assignments.
Action 1	To reinforce students' comprehension and application of Engineering Physics principles by incorporating assignments focused on numerical problem-solving.		
Action 2	To assess and reinforce students' comprehension of Basic Electronics Engineering concepts through MCQ (Multiple-Choice Question) quizzes.		
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO3	1.07	0.80	Attainment is 74.76 % of the target value. specific topics or concepts in Basic Electrical Engineering that students find challenging when it comes to numerical problem-solving need to identify.
Action 1	To improve students' numerical problem-solving skills and understanding of Basic Electrical Engineering concepts by organizing an extra lecture focused on numerical practice.		
PO4: 4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	1	0.43	Attainment is 43.00% of the target value. To gain knowledge through practical's.
Action 1	To derive conclusions on experimental data.(Engineering Physics)		

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
PO5	1.36	1.03	Attainment is 75.74% of the target value. Specific programming skills and problem-solving abilities that students should develop through algorithmic thinking, debugging skills, and the ability to develop efficient solutions using modern tools.
Action 1	Effective utilization of modern tools like Vlab, Google Quiz, PPT, YouTube Videos, google website, NPTEL video lectures, MS Teams		
Action 2	Encourage students to use modern online softwares ,Simulation software		
PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO6	1	0.99	Attainment is 99.00 % of the target value. During the planning phase, identify relevant techno-social issues that align with the learning objectives of the Project-Based Learning subject. Consider topics that combine technology and social impact, such as sustainability, accessibility, digital divide, healthcare, education, or community development.
Action 1	To promote techno-social innovation and experiential learning by engaging students in Techno-Social Projects as part of the Project-Based Learning subject.		
PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
PO7	1	0.84	Attainment is 84.00% of the target value. To understand the role of engineers for providing solutions to environmental problems.
Action 1	Students are encouraged to participate in activities, expert lectures related to Environmental problems for sustainable development.		
PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO8	1	0.69	Attainment is 69% of the target value. Identify the key ethical topics and considerations that are relevant to programming and problem-solving.
Action 1	To enhance students' understanding of ethical considerations and responsible practices in programming through an expert lecture on ethics in the context of Programming and Problem Solving subject.		
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO9	1.33	1.26	Attainment is 94.73% of the target value. Consider factors such as students' backgrounds, interests, and abilities to ensure diverse and balanced teams. Encourage collaboration and diversity within teams to promote different perspectives, effective

			communication, and shared responsibility.
Action 1	To engage students in hands-on, collaborative learning experiences by implementing Project-Based Learning (PBL) projects as part of the "Project Based Learning" course.		
Action 2	Evaluation of student performance during Group presentations and project exhibition of Project Based Learning(PBL)		
PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO10	1	0.80	Attainment is 80.00% of the target value. Provide opportunities for students to reflect on their learning journey and the outcomes
Action 1	To provide students with opportunities to demonstrate their learning outcomes, showcase their PBL projects, and foster knowledge sharing through group presentations and an exhibition of PBL posters as part of the "Project Based Learning" course.		
Action 2	To provide students with firsthand experience and industry insights by conducting actual showroom visits for the collection and comparison of vehicle specifications as part of the Systems in Mechanical Engineering.		
PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
PO11	1	0.99	Attainment Level is 99.00% target level. Guide students on how to estimate each cost element and aggregate them to create a comprehensive project budget.
Action 1	To equip students with the skills to effectively estimate the costs associated with Project-Based Learning (PBL) projects in the "PBL" course, fostering financial acumen and project management capabilities.		
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
PO12	1	0.69	Attainment Level is 69.00% target level. -Provide information about opportunities for students to actively engage in rural development projects, such as internships, volunteering, or research collaborations. Highlight existing initiatives or organizations working in rural areas that students can connect with. -To develop problem solving approach through programming (Programming and Problem Solving)
Action 1	To familiarize young engineering graduates with the significant role they can play in rural development and enhance their understanding of the challenges and opportunities associated with engineering projects in rural areas, a session of NSS coordinator is planned under the induction program.		
Action 2	To engage students for independent learning to solve engineering problems through programming (Programming and Problem Solving).		

Table B.8.5.2

Note: PSOs, if applicable to be added appropriately.

PSO Attainment Levels and Actions for improvement - CAY – Mention for relevant PSO's

ACADEMIC YEAR 2021-22			
PSO's	**Target Level**	**Attainment Level**	**Observations**
PSO1: Analyze Design and Test Analog and Digital circuits and systems for given application.			
PO1	1.41	0.85	Attainment Level is 60.28 % of the target value. Electronics Engineering is a core Engineering branch which requires knowledge of basic science, mathematics and fundamentals of Electrical Engineering. But students lacks in applications of fundamental knowledge and correlation between theoretical concepts and practical applications.
Action 1	Students are encouraged to participate in events like project competition, Hackathon, Unnat Bharat Abhiyaan.		
PSO2: Implements technical blocks of hardware – software design foe Embedded & Robotics automation application.			
PSO2	1.30	0.82	Attainment Level is 63.08 % of the target value. The problem solving and analyzing skills to be developed.
Action 1	Students are encouraged to participate in events like project competitions, Hackathon, Unnat Bharat Abhiyaan		
Action 2	Students are encouraged for Virtual and physical Internships.		
PSO3: Apply knowledge of E &TC system for social and environmental problems as a individual member or leader of diverse team in multidisciplinary settings.			
PSO3	1.25	1.24	Attainment Level is 99.20 % of the target value.
Action 1	Students are encouraged to participate in events like project competitions, Hackathon, Unnat Bharat Abhiyaan		
Action 2	Students are encouraged to participate in different technical and non-technical events and competitions		

ANNEXURE I:

PROGRAM OUTCOMES (POs) Engineering Graduates will be able to:

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

***

AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE, New Delhi, Recognized by Government of Maharashtra
Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC
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DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION IX

Student Support Systems

CRITERION 9	Student Support Systems	50

9.1	Mentoring System to help at Individual Level	05

A. Details of the mentoring system: **05)**

Preamble: Mentoring encompasses a broad set of skills, approaches and techniques that are essentially aimed at helping students with problem solving, problem management, resolving past issues, working towards developmental aims and goals for the future, which include improving performance and meeting career and personal aspirations.

Goal: To promote self-understanding and self-acceptance of a student.

Objectives:

- To help students to overcome emotional challenges.
- To assist a student to know him/herself better through SWOC analysis.
- To work out a plan for solving his/her difficulties.
- To assist students in planning their career choices.

Functioning:

- Each faculty acts as a mentor in the mentoring process.
- A mentor is responsible for guiding about 20 students of a class.
- The mentor listens to the problems of mentee, both academic and personal which hinder their learning abilities.
- In the mentoring sessions, students raise their difficulties/problems regarding academics/general facilities/hostel facilities with their respective mentors.
- If the mentor/ course coordinator/ GFM/ HOD observes or finds a student who needs Professional Counselling, his/her case is forwarded to the Professional Counselling agency through the Counselling and Mentoring Coordinator.

Post Counselling

- Feedback and Behavioral improvements are observed from the student seeking professional counselling.
- Record of a case study report is asked from the mentor mentioning the positive changes and improvement observed for the student.

Operating Procedure:

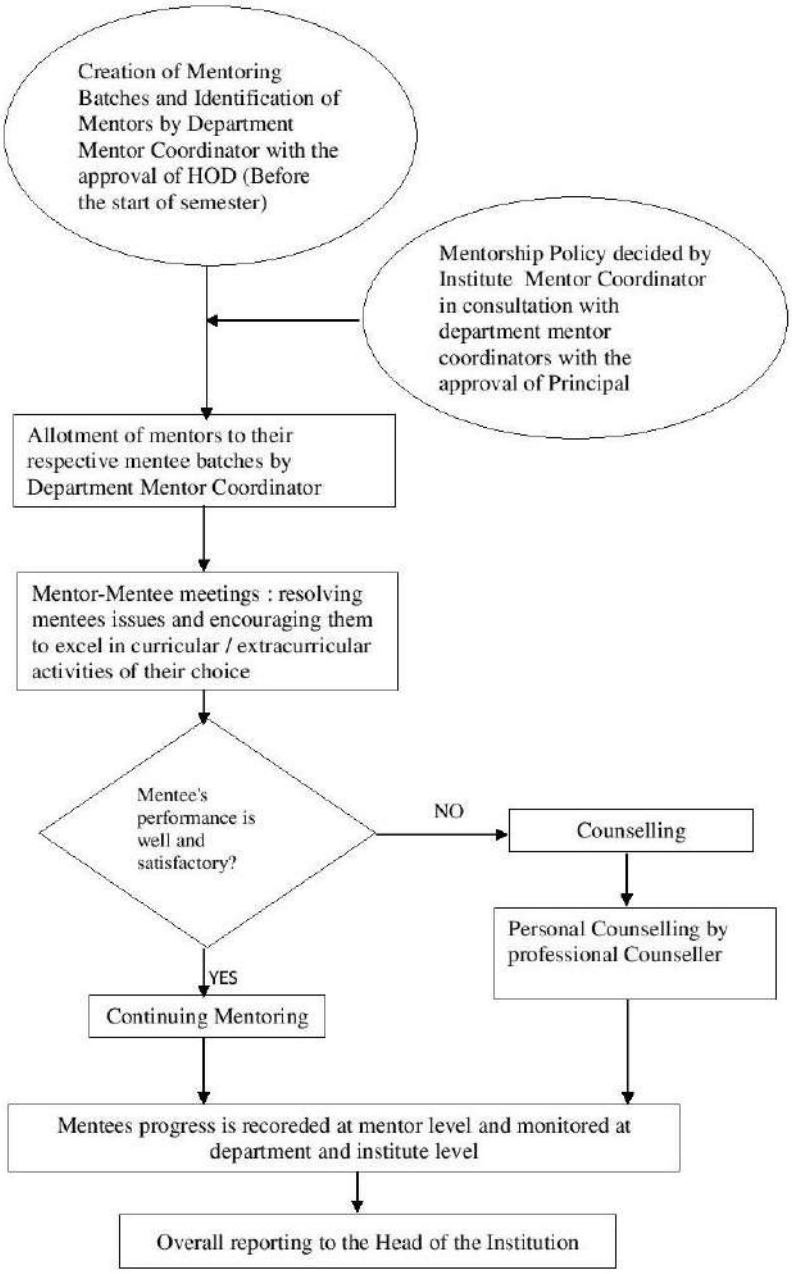


Figure 9.1.1: Mentoring process

Role of Department Mentor Coordinator:

1. To distribute the hard copy of required formats to the department mentors.
2. To maintain the list of the students and respective mentors.
3. To review the records of the entire department in a semester.
4. To collect the records from all the mentors at the end of every semester.
5. To handover the mentor records of earlier semester to next mentors at the beginning of semester through HOD

Roles and Responsibilities of Mentors:

1. To collect the student Information from the respective GFM/Students section.
2. To establish contact with the parents through telephonic discussion, inform them about the development of their ward.
3. To conduct meetings with students.
4. To act as a Counsellor and Guide of the student.
5. To encourage the student to have open dialogue.
6. To record the observations of the student viz. achievements, doubts, fears, grievances, etc.
7. To evaluate the students' ability, strengths, and weaknesses.
8. To help the students to overcome their weaknesses and strengthen the abilities to excel in his/her defined objectives.
9. To maintain utmost secrecy about the matters disclosed by the student during counseling.
10. To maintain the following records:
    a. Personal Information
    b. Academic, Psychological, financial, and Overall performance.
    c. Attendance of mentees.

If special assistance is required, forward the case to the Students Counselling Cell through.

Mentor-Mentee Allotment

Table 9.1.1: Mentor-Mentee Allotment for Academic Year 2023-24, Term-I

Sr. No	Class	Batch	Name of Faculty	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	23
2		B	Mr. V B GAWAI	20
3		C	Dr. K B CHAUDHARI	25
4	TE (E&TC)	A	Dr. S B DHONDE	16
5		B	Dr. V V DESHMUKH	16
6		C	Mrs. Y P LAD	20
7		D	Dr. P P VAST	20
8	BE (E&TC)	A	Dr. R R ITKARKAR	19
9		B	Mr. N P MAWALE	19
10		C	Mr. S B DHEKALE	20
11		D	Ms. V D NAGRALE	20

Table 9.1.2: Mentor-Mentee Allotment for Academic Year 2023-24, Term-II

Sr. No	Class	Batch	Name of Faculty	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	23
2		B	Dr. V V DESHMUKH	20
3		C	Dr. K B CHAUDHARI	25
4	TE (E&TC)	A	Mrs. G D SALUNKE	18
5		B	Mr. N P MAWALE	18
6		C	Dr. P P VAST	18
7		D	Mr. S B DHEKALE	13
8	BE (E&TC)	A	Ms. V D NAGRALE	19
9		B	Mr. V B GAWAI	19
10		C	Mrs. Y P LAD	17
11		D	Dr R R ITKARKAR	18

Table 9.1.3: Mentor-Mentee Allotment for Academic Year 2022-23, Term-I

Sr. No	Class	Batch	Name of Faculty	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	21
2		B	Mr. V B GAWAI	22
3		C	Dr. K B CHAUDHARI	22
4		D	Mrs. S A TAKALKAR	13
5	TE (E&TC)	A	Ms. V D NAGRALE	20
6		B	Dr. P P VAST	20
7		C	Dr. V V DESHMUKH	19
8		D	Mrs. Y P LAD	19
9	BE (E&TC)	A	Dr R R ITKARKAR	23
10		B	Mr. N P MAWALE	22
11		C	Mr. S B DHEKALE	17
12		D	Mrs. P T TAYADE	16
13	BE (ELEX)	A	Mrs. P T TAYADE	3

Table 9.1.4: Mentor-Mentee Allotment for Academic Year 2022-23, Term-II

Sr. No	Class	Batch	Name of Faculty	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	19
2		B	Dr. V V DESHMUKH	19
3		C	Mrs. S A TAKALKAR	20
4		D	Mr. S B DHEKALE	20
5	TE (E&TC)	A	Dr. P P VAST	23
6		B	Mrs. P T TAYADE	22
7		C	Ms. V D NAGRALE	16
8		D	Mr. N P MAWALE	17
9	BE (E&TC)	A	Dr R R ITKARKAR	20
10		B	Dr. K B CHAUDHARI	20
11		C	Mrs. Y P LAD	19
12		D	Mr. V B GAWAI	19
13	BE (ELEX)	A	Dr R R ITKARKAR	03

Table 9.1.5: Mentor-Mentee Allotment for Academic Year 2021-22, Term-I

Sr. No	Class	Batch	Name of Faculty	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	19
2		B	Mr. N P MAWALE	20
3		C	Mr. V B GAWAI	19
4		D	Mr. S B DHEKALE	20
5	TE (E&TC)	A	Dr. P P VAST	20
6		B	Mrs. Y P LAD	20
7		C	Dr R R ITKARKAR	21
8		D	Ms. V D NAGRALE	20
9	BE (E&TC)	A	Dr. V V DESHMUKH	20
10		B	Dr. K B CHAUDHARI	21
11		C	Mrs. S A TAKALKAR	21
13	BE (ELEX)	A	Mrs. S A TAKALKAR	4

Table 9.1.6: Mentor-Mentee Allotment for Academic Year 2021-22, Term-II

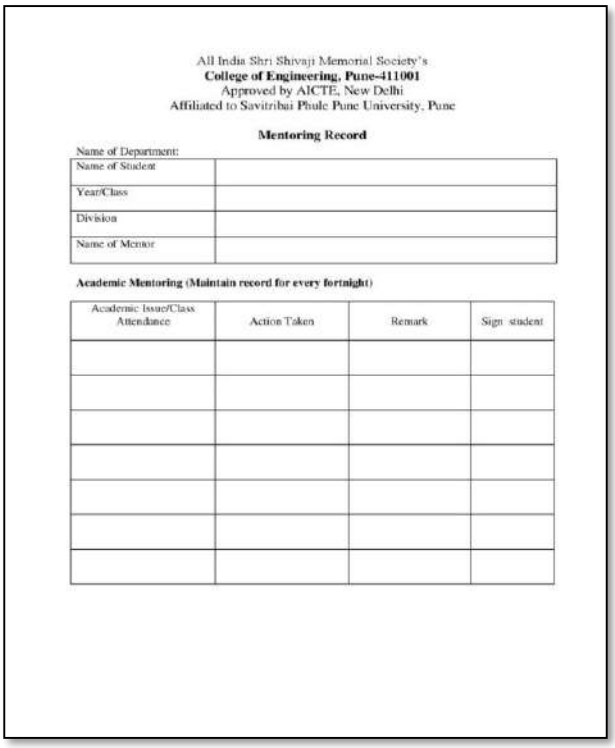
Sr. No	Class	Batch	Name of Faculty	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	19
2		B	Ms. V D NAGRALE	20
3		C	Mr. V B GAWAI	19
4		D	Mr. S B DHEKALE	20
5	TE (E&TC)	A	Dr. P P VAST	20
6		B	Mrs. P T TAYADE	20 + 3 (TE Elex)
7		C	Dr. V V DESHMUKH	20
8		D	Mr. N P MAWALE	19
9	BE (E&TC)	A	Dr R R ITKARKAR	20
10		B	Dr. K B CHAUDHARI	21
11		C	Mrs. Y P LAD	21
12	BE(ELEX)	A	Mrs. Y P LAD	5

Table 9.1.7: Mentor-Mentee Allotment for Academic Year 2020-21, Term-I

Sr. No	Class	Batch	Name of Teacher	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	27
2		B	Mr. N P MAWALE	28
3		C	Mr. V B GAWAI	27
5	TE (E&TC)	A	Dr R R ITKARKAR	15
6		B	Mrs. Y P LAD	15
7		C	Dr. P P VAST	15
8		D	Mr. A Y KAZI	15
9	BE (E&TC)	A	Dr. V V DESHMUKH	16
10		B	Mr. S B DHEKALE	16
11		C	Ms. V D NAGRALE	16
12		D	Dr. K B CHAUDHARI	17
13	BE (ELEX)	A	Mrs. S A TAKALKAR	28

Table 9.1.8: Mentor-Mentee Allotment for Academic Year 2020-21, Term-II

Sr. No	Class	Batch	Name of Teacher	Number of Students
1	SE (E&TC)	A	Mrs. V S NAVALE	26
2		B	Mr. N P MAWALE	26
3		C	Mr. V B GAWAI	25
4	TE (E&TC)	A	Dr R R ITKARKAR	15
5		B	Mrs. Y P LAD	15
6		C	Dr. P P VAST	15
7		D	Mr. A Y KAZI	15
8	BE (E&TC)	A	Mr. S B DHEKALE	21
9		B	Ms. V D NAGRALE	22
10		C	Dr. K B CHAUDHARI	21
11	BE(ELEX)	A	Mrs. S A TAKALKAR	27



All India Shri Shivaji Memorial Society's
College of Engineering, Pune-411001
Approved by AICTE, New Delhi
Affiliated to Savitribai Phule Pune University, Pune

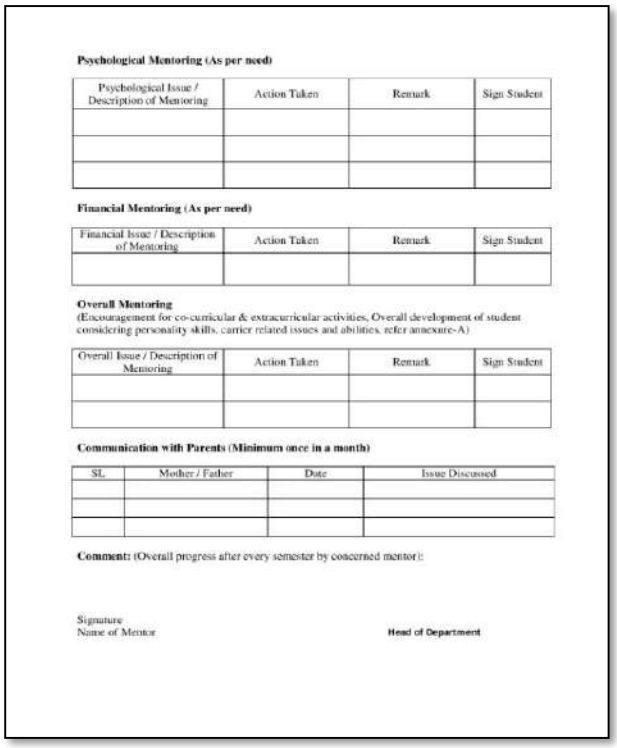
Mentoring Record

Name of Department:

Name of Student	
Year/Class	
Division	
Name of Mentor	

Academic Mentoring (Maintain record for every fortnight)

Academic Issue/Class Attendance	Action Taken	Remark	Sign student



Psychological Mentoring (As per need)

Psychological Issue / Description of Mentoring	Action Taken	Remark	Sign Student

Financial Mentoring (As per need)

Financial Issue / Description of Mentoring	Action Taken	Remark	Sign Student

Overall Mentoring
(Encouragement for co-curricular & extracurricular activities, Overall development of student considering personality skills, carrier related issues and abilities, refer annexure-A)

Overall Issue / Description of Mentoring	Action Taken	Remark	Sign Student

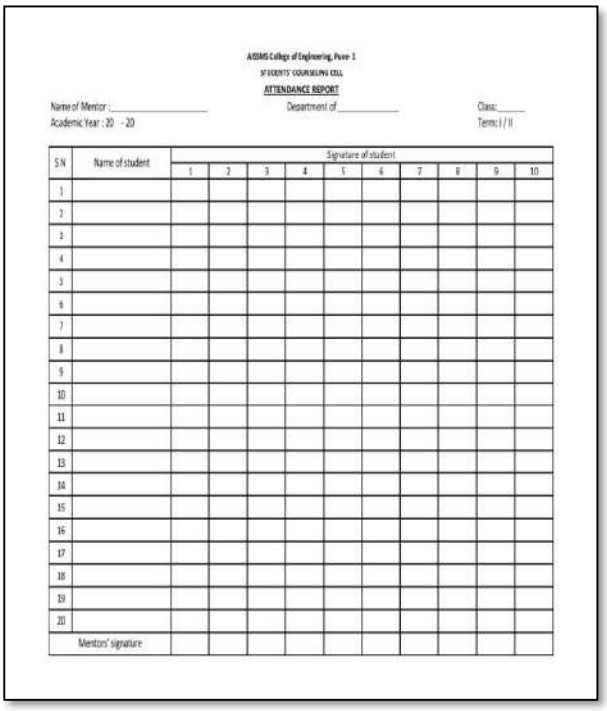
Communication with Parents (Minimum once in a month)

SL	Mother / Father	Date	Issue Discussed

Comment: (Overall progress after every semester by concerned mentor):

Signature
Name of Mentor

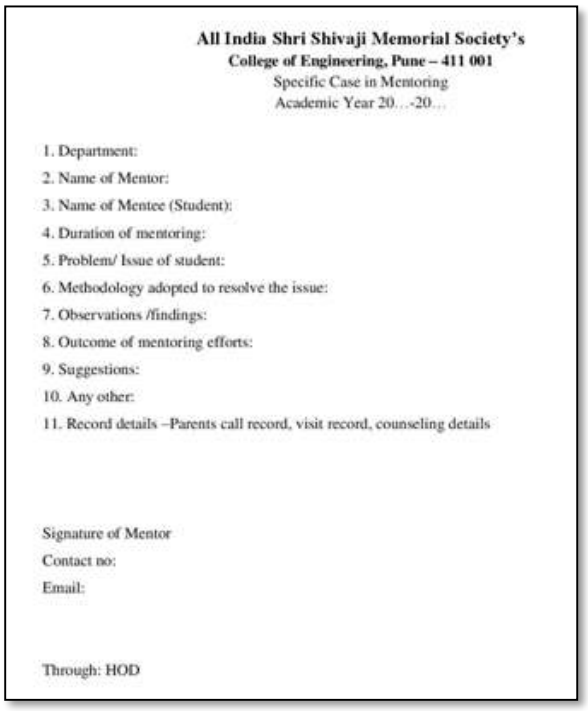
Head of Department



AISSMS College of Engineering, Pune-1
STUDENTS' COUNSELING CELL
ATTENDANCE REPORT

Name of Mentor :_____ Department of _____ Class:_____
Academic Year : 20 - 20 Term: I / II

S.N	Name of student	Signature of student									
		1	2	3	4	5	6	7	8	9	10
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
	Mentors' signature										



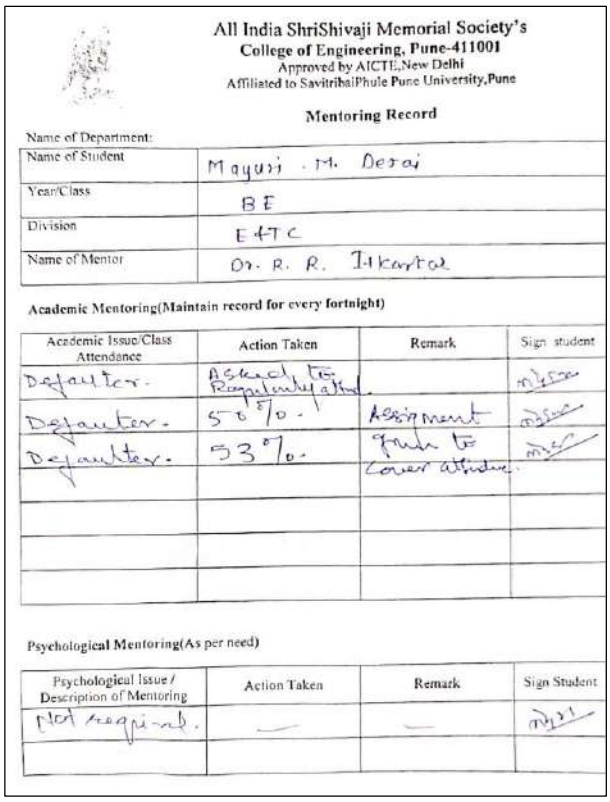
All India Shri Shivaji Memorial Society's
College of Engineering, Pune – 411 001
Specific Case in Mentoring
Academic Year 20...-20...

1. Department:
2. Name of Mentor:
3. Name of Mentee (Student):
4. Duration of mentoring:
5. Problem/ Issue of student:
6. Methodology adopted to resolve the issue:
7. Observations /findings:
8. Outcome of mentoring efforts:
9. Suggestions:
10. Any other:
11. Record details –Parents call record, visit record, counseling details

Signature of Mentor
Contact no:
Email:

Through: HOD

Figure 9.1.6: Various Mentoring formats



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College of Engineering, Pune-411001
Approved by AICTE,New Delhi
Affiliated to SavitribaiPhule Pune University,Pune

Mentoring Record

Name of Department:

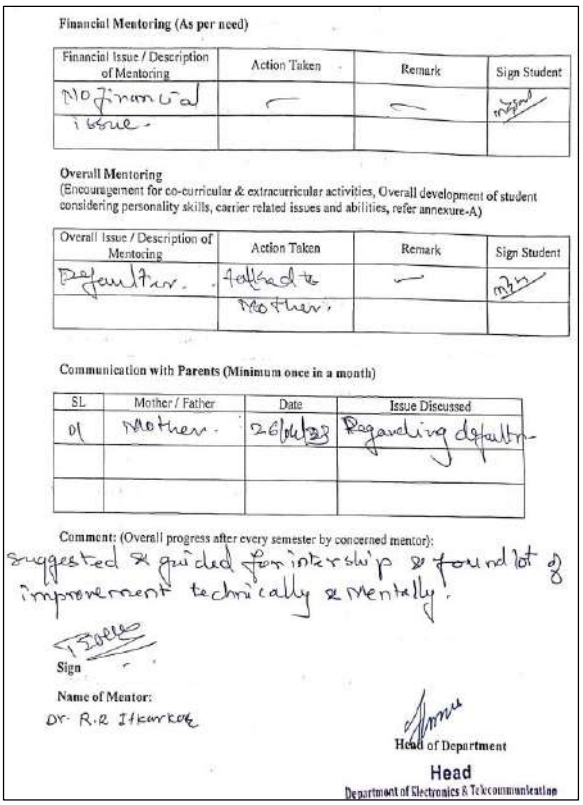
Name of Student	Mayuri . M. Deorai
Year/Class	BE
Division	E&TC
Name of Mentor	Dr. R. R. Itkarkar

Academic Mentoring(Maintain record for every fortnight)

Academic Issue/Class Attendance	Action Taken	Remark	Sign student
Defaulter.	Asked to Regularly attend.		
Defaulter.	50 %	Assignment	
Defaulter.	53 %	Guide to Cover attendance.	

Psychological Mentoring(As per need)

Psychological Issue / Description of Mentoring	Action Taken	Remark	Sign Student
Not required.	—	—	



Financial Mentoring (As per need)

Financial Issue / Description of Mentoring	Action Taken	Remark	Sign Student
No financial issue.	—	—	

Overall Mentoring
(Encouragement for co-curricular & extracurricular activities, Overall development of student considering personality skills, carrier related issues and abilities, refer annexure-A)

Overall Issue / Description of Mentoring	Action Taken	Remark	Sign Student
Defaulter.	Talked to Mother.	—	

Communication with Parents (Minimum once in a month)

SL	Mother / Father	Date	Issue Discussed
01	Mother.	26/06/23	Regarding defaulter.

Comment: (Overall progress after every semester by concerned mentor):
Suggested & guided for internship & found lot of improvement technically & mentally.

Sign

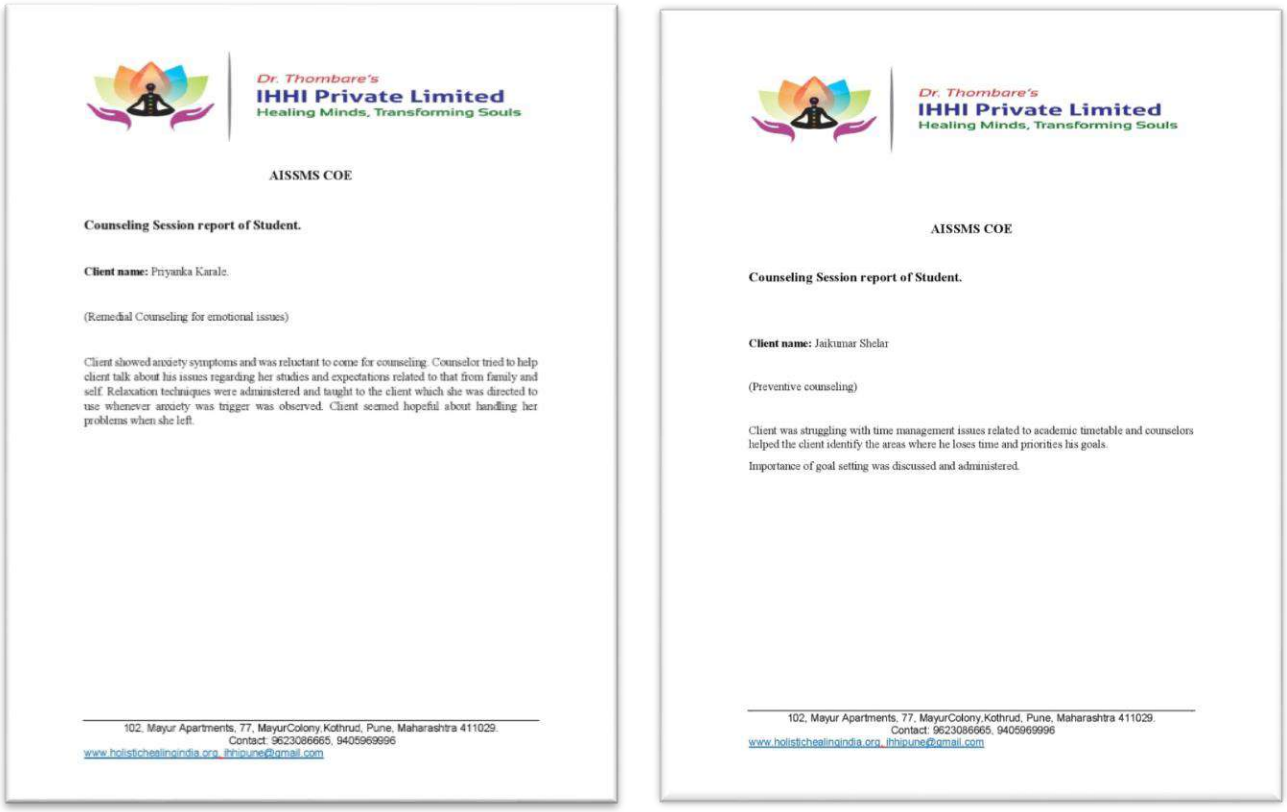
Name of Mentor:
Dr. R.R Itkarkar

Head of Department
Head
Department of Electronics & Telecommunication

Figure 9.1.7: Sample of Filled Mentoring form.

Efficacy of mentoring system:

Mentoring system supports to get feedback of students regarding facilities such as internet, classroom/lab cleanliness, drinking water, canteen etc. through mentor-mentee interactions.
Mentor monitors students (mentees) regularity in the classes. This monitoring supports to teaching learning system. Monitoring is done through SMS, calling to parents and by the way of ERP.



Dr. Thombare's
IHHI Private Limited
Healing Minds, Transforming Souls

AISSMS COE

Counseling Session report of Student.

Client name: Priyanka Karale.

(Remedial Counseling for emotional issues)

Client showed anxiety symptoms and was reluctant to come for counseling. Counselor tried to help client talk about his issues regarding her studies and expectations related to that from family and self. Relaxation techniques were administered and taught to the client which she was directed to use whenever anxiety was trigger was observed. Client seemed hopeful about handling her problems when she left.

102, Mayur Apartments, 77, MayurColony,Kothrud, Pune, Maharashtra 411029.
Contact: 9623086665, 9405969996
www.holistichealingindia.org, ihhipune@gmail.com

Dr. Thombare's
IHHI Private Limited
Healing Minds, Transforming Souls

AISSMS COE

Counseling Session report of Student.

Client name: Jaikumar Shelar

(Preventive counseling)

Client was struggling with time management issues related to academic timetable and counselors helped the client identify the areas where he loses time and priorities his goals.

Importance of goal setting was discussed and administered.

102, Mayur Apartments, 77, MayurColony,Kothrud, Pune, Maharashtra 411029.
Contact: 9623086665, 9405969996
www.holistichealingindia.org, ihhipune@gmail.com

Figure 9.1.8: Counselling Session Reports

9.2	Feedback analysis and reward /corrective measures taken if any	10

A. Methodology being followed **(5)**

Students' feedback about all teaching courses is taken twice a semester through the ERP system. Turn-1 feedback is taken after the first 30 to 40 days of teaching. Corrective actions are taken after this feedback. Turn-2 feedback is taken at the end of the semester.
Following Performance Parameters are set for feedback.

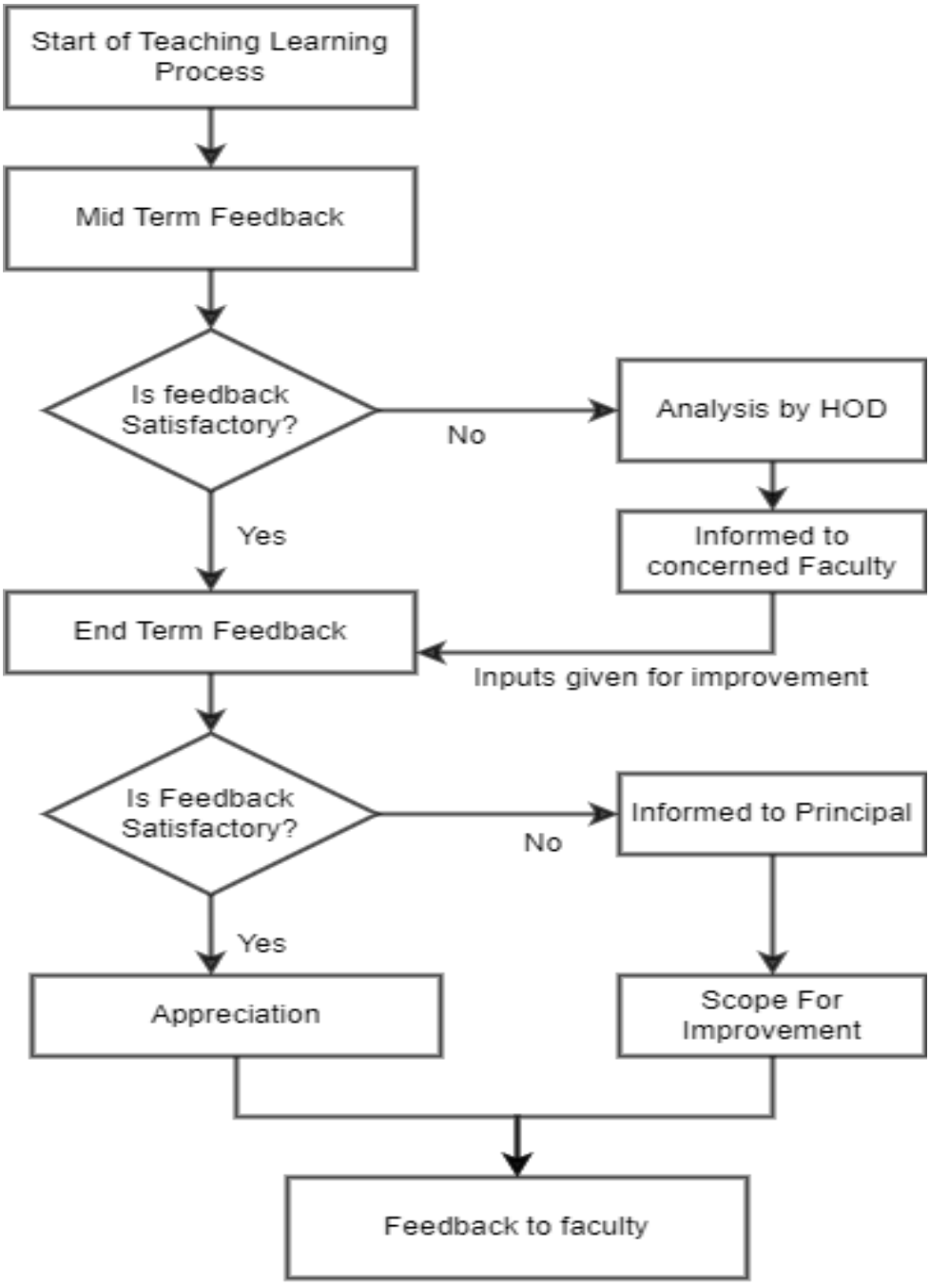


Figure. 9.2.1: Feedback process

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. Effectiveness of teacher in terms of technical content /course content, communication skills and use of teaching aids.
4. Pace on which contents covered.
5. Motivation and inspiration for students to learn.
6. Support for the development of student's skill practical demonstration, hands on training.
7. Clarity of expectations of students.
8. Feedback provided on students' progress.
9. Willingness to offer help and advice to students.

The Rubrics is prepared to assess the syllabus covered by the faculty, pace of teaching, topic covered etc. and shared with students through ERP for evaluation of the faculty. 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.

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

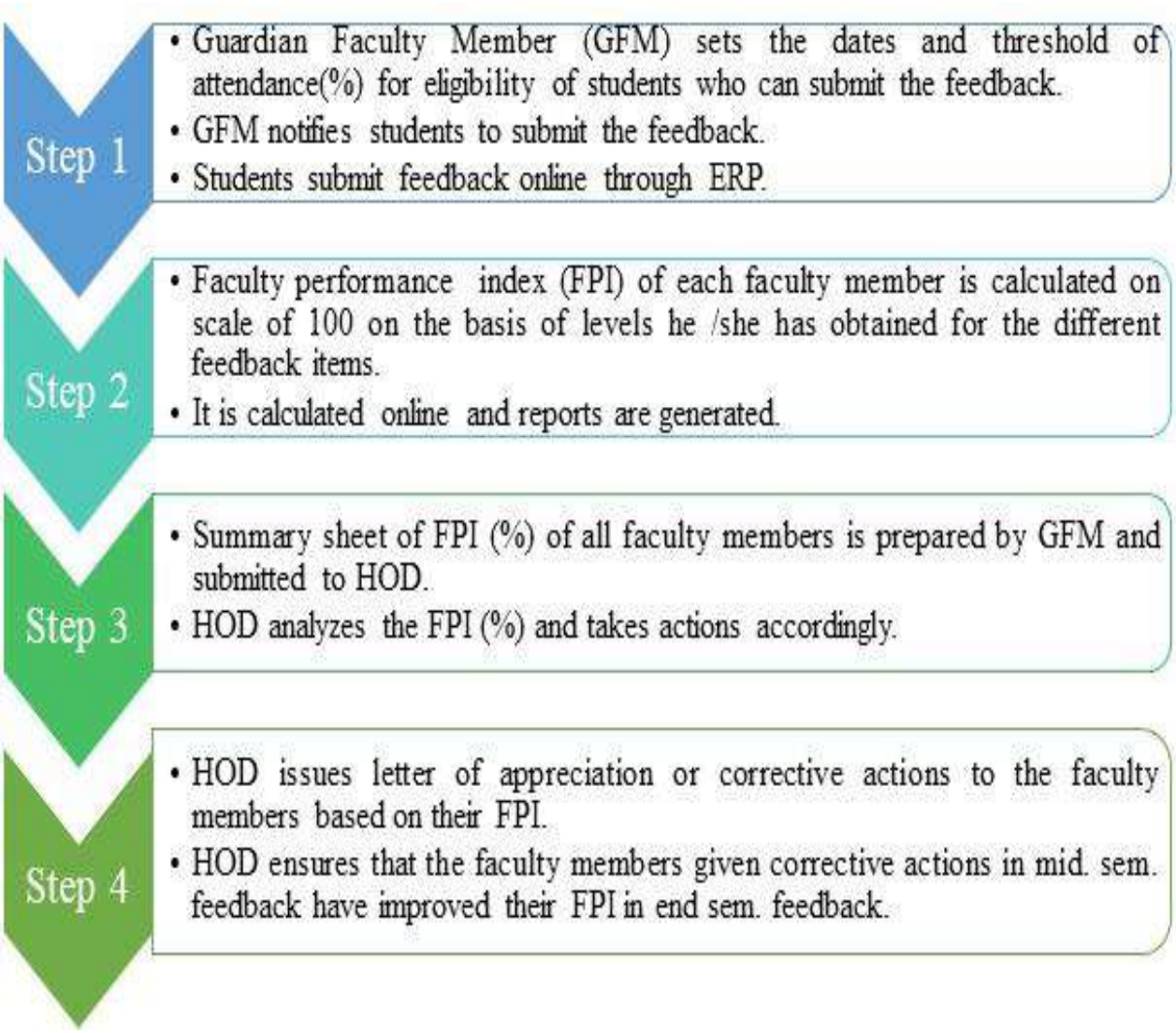
Total marks obtained for a question = $5 \times n_1 + 4 \times n_2 + 3 \times n_3 + 2 \times n_4 + 1 \times n_5$

Maximum marks = $5 \times N$

Feedback obtained = (Total marks obtained for a question/ Maximum marks) *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.

Following chart explains the feedback analysis process:



Summary of the index values for all Courses/ Teachers:

AY 2023-24 TERM-I

Table 9.2.1: Faculty feedback AY 2023-24 (Term- I)

Sr. No.	Name of Faculty	Class/No. of Students	Subject	Feedback	
				Theory	Practical
1	Dr D S Bormane	SE	ESD		84
2	Dr. S. B. Dhonde	BE	RMT		83
		TE	CN	77	77
3	Mrs. K. B. Chaudhari	SE	DS	86	87
		BE	DL	87	87
4	Mr. S. B. Dhekale	TE	FJP	85	82
		BE	AJP	87	84
5	Mr. N. P. Mawale	TE	SD		72
		BE	VLSI	87	86
6	Dr. P. P.Vast	TE	MC	70	71
		BE	MIOT	85	85
7	Ms. V. D. Nagrale	TE	DBMS	77	76
		BE	PDC	89	
8	Mrs. V.V. Deshmukh	SE	DC	87	87
		TE	EFT	89	
9	Mrs. V. S. Navale	SE	ELC	87	86
		TE	SD		83
		BE	RMT		86
10	Mrs. Y. P. Lad	TE	DC	79	80
		BE	RMT	87	
11	Mr. V. B. Gawai	NA			
12	Mrs. R. R. Itkarkar	TE	SD		88
		BE	CC	88	87
13	Mrs. G.D.Salunke	SE	EC	83	84
		TE	MC		65

AY 2023-24 TERM II

Table 9.2.2: Faculty feedback AY 2023-24 (Term-II)

Sr. No.	Name of Faculty	Class/No. of Students	Subject	Feedback	
				Theory	Practical
1	Dr. S. B. Dhonde	TE	NS	71	67
2	Dr. K. B. Chaudhari	SE	DAL		83
		BE	DM	89	
3	Mr. S. B. Dhekale	SE	OOP	85	86
		TE	AJV	87	84
4	Mr. N. P. Mawale	TE	PDC	73	73
5	Dr. P. P. Vast	TE	CN	74	73
6	Ms. V. D. Nagrale	SE	ESD	82	82
		BE	AD	90	90
7	Dr. V. V. Deshmukh	SE	SS	85	83
		SE	S&CS		85
8	Mrs. V. S. Navale	SE	PCS	83	83
9	Mrs. Y. P. Lad	TE	NS		76
		BE	FO	91	90
10	Mr. V. B. Gawai	SE	CS	90	90
		BE	IE		91
11	Mrs. R. R. Itkarkar	BE	MC	87	87
		BE	DBM		87
12	Mrs. G.D.Salunke	SE	OOP		84
		TE	PM	71	
		BE	DBM		85

AY 2022-23 TERM I

Table 9.2.3: Faculty feedback AY 2022-23 (Term-I)

Sr. No.	Name of Faculty	Class/No. of Students	Subject	Feedback	
				Theory	Practical
1	Dr. S. B. Dhonde	BE	RMT	82.5	83.5
2	Mrs. K. B. Chaudhari	SE	DS	75.5	83.5
		BE	DL	91.5	-
3	Mr. S. B. Dhekale	TE	FJP	90.5	91.5
		BE	AJP	87.0	89.0
4	Mr. N. P. Mawale	TE	SD	-	78.5
		BE	VLSI	85.5	87.0
5	Dr. P. P.Vast	TE	MC	87.0	87.5
		TE	SD	-	86.5
6	Ms. V. D. Nagrale	SE	ESD	-	67.5
		TE	DBMS	91.0	-
7	Mrs. V.V. Deshmukh	SE	DC	68.0	73.0
		TE	CN	96.0	95.0
8	Mrs. V. S. Navale	SE	ELC	71.0	73.0
9	Mrs. Y. P. Lad	TE	DC	89.0	88.5
		BE	EPD	90.0	-
10	Mrs. V. B. Gawai	SE	EC	77.5	77.5
		TE	ESD	-	78.5
11	Mrs. R. R. Itkarkar	TE	EWP	90.5	91.0
		BE	MIOT	88.0	84.0
12	Mrs. P. P. Tayade	SE	DS	-	71.0
		BE	CC	92.0	91.0

AY 2022-23 TERM II

Table 9.2.4: Faculty feedback AY 2022-23 (Term-II)

Sr. No.	Name of Faculty	Class/No. of Students	Subject	Feedback	
				Theory	Practical
1	Dr. S. B. Dhonde	TE	NS	80.0	82.0
2	Dr. K. B. Chaudhari	SE	DAL	92.5	75.0
		BE	DM	-	-
3	Mr. S. B. Dhekale	SE	OOP	71.5	71.5
4	Mr. N. P. Mawale	TE	PDC	83.0	82.5
		BE	IE	-	84.5
5	Dr. P. P. Vast	TE	CN	85.5	85.0
6	Ms. V. D. Nagrale	SE	ESD	77.0	76.5
		TE	PM	88.5	-
7	Dr. V. V. Deshmukh	SE	S and S	86.0	85.5
8	Mrs. V. S. Navale	SE	PCS	71.0	73.0
9	Mrs. Y. P. Lad	BE	FO	91.0	90.0
10	Mr. V. B. Gawai	SE	CS	87.5	86.0
		BE	IE	-	92.5
11	Mrs. R. R. Itkarkar	BE	MC	89.5	88.5
		BE	IE	-	90.0
12	Mrs. P. P. Tayade	TE	AJP	85.0	85.0
		BE	DBM	-	91.5

AY 2021-22 TERM I

Table 9.2.5: Faculty feedback AY 2021-22 (Term-I)

Sr. No.	Name of Faculty	Class/No. of Students	Subject	Feedback	
				Theory	Practical
1	Dr. D.S. Bormane	SE	PBL	--	86
2	Dr. D. G. Bhalke	BE	RMT	82	79
3	Dr. K. B. Chaudhari	SE	ESD	--	79
		BE	IOT	84	82
3	Mr. Sudhir Surase	SE	EM III	83	
4	Mr. S. B. Dhekale	SE	DS	84	
		BE	VLSI DT	80	
6	Dr. P. P. Vast	TE	MC	89	
		BE	ESRTOS	87	87
7	Ms. V. D. Nagrale	TE	DM	91	--
		BE	VLSI	78	82
8	Ms. V. V. Deshmukh	SE	ESD	73	
		BE	CNS	82	80
9	Mrs. V. S. Navale	SE	EC	85	86
10	Mrs. Y. P. Lad	TE	DC	93	92
11	Mr. V. B. Gawai	SE	EC	83	83
		TE	FJP	95	96
12	Mrs. R. R. Itkarkar	TE	ET	92	-
		BE	AI	82	-
13	Ms. S. A. Takalkar	SE	DC	72	-
		BE	EPD	-	79

AY 2021-22 TERM II

Table 9.2.6: Faculty feedback AY 2021-22 (Term-II)

Sr. No.	Name of Faculty	Class/ No. of Students	Subject	Feedback	
				Theory	Practical
1	Dr. D. S. Bormane	SE	PBL	--	86
2	Dr. D. G. Bhalke	SE	SS	86	87
			PBL	--	79
3	Dr. K. B. Chaudhari	SE	DA Lab	--	89
			OOP's	--	90
		BE	ML	83	83
4	Mr. A. Y. Kazi	TE	Mechatronics	79	80
5	Mr. S. B. Dhekale	SE	OOPS	89	89
		SE	DA	--	87
		SE	PBL	--	96
6	Mr. N. P. Mawale	TE	PDC	91	89
		TE	MP	--	84
		SE	PCS	87	--
		SE	PBL	--	72
7	Mrs. P. P. Vast	TE	CN	88	89
		TE	MP	--	92
		SE	PBL	--	99
8	Ms. V. D. Nagrale	TE	PM	92	--
		SE	ESD	87	88
			PBL	---	98
9	Ms. V. V. Deshmukh	TE	NS	93	93
			MP	--	97
		SE	PBL	---	86
10	Mrs. V. S. Navale	SE	PCS	87	88

		SE	PBL	--	94
		BE	RES	78	--
11	Mrs. Y. P. Lad	TE	DC	78	81
		BE	BCS	81	80
		SE	PBL	--	99
12	Mr. V. B. Gawai	SE	CS	90	--
		SE	SS	--	92
		SE	DA Lab	--	88
		SE	PBL	--	100
		BE	RES	86	87
13	Mrs. R. R. Itkarkar	SE	PBL	--	100
		BE	MC	82	80
14	Ms. P. P. Tayade	TE	AJP	95	93
			MP	---	92

AY 2020-21 SEM I

Table 9.2.7: Faculty feedback AY 2020-21 (Sem-I)

Sr. No.	Name of Faculty	Class/No. ofStudents	Subject	Feedback	
				Theory	Practical
1	Dr. D. G. Bhalke	SE	SS	88	-
2	Dr. K. B. Chaudhari	BE	ML	83	-
3	Mr. A. Y. Kazi	TE	Mechatronics	79	80
4	Mr. S. B. Dhekale	SE	OOPS	85	--
		TE	SPOS	82	78
5	Mr. N. P. Mawale	TE	MP	87	86
		TE	PE	79	77
6	Mrs. P. P. Vast	TE	ESD	--	67
		TE	MC	76	77
7	Ms. V. D. Nagrale	SE	ESD	86	--
8	Ms. V. V. Deshmukh	TE	DSP	72	76
9	Mrs. V. S. Navale	SE	EC	90	90
		TE	DSP	--	80
		SE	PCS	85	--
10	Mrs. Y. P. Lad	TE	DC	78	81
		BE	BCS	86	---
11	Mr. V. B. Gawai	TE	ESD	81	---
		TE	DSP	--	86
		SE	CS	86	--
		BE	RES	86	87
12	Mrs. R. R. Itkarkar	TE	ET	80	--
		BE	AVE	92	
13	Mrs. S. A. Takalkar	TE	ESD	--	74
14	Ms. Rakhi Khedkar	BE	MC	83	

AY 2020-21 SEM II

Table 9.2.8: Faculty feedback AY 2020-21 (Sem-II)

Sr.No.	Name of Faculty	Class/No. ofStudents	Subject	Feedback	
				Theory	Practical
1	Dr. D. S. Bormane	SE	PBL	--	86
2	Dr. D. G. Bhalke	SE	SS	88	--
3	Mrs. K. B. Chaudhari	BE	ML	84	--
4	Mr. A. Y. Kazi	TE	Mechatronics	79	80
5	Mr. S. B. Dhekale	SE	OOPS	85	--
		TE	SPOS	74	--
6	Mr. N. P. Mawale	TE	PE	75	--
7	Mrs. P. P. Vast	TE	AP	79	--
		TE	ESMP	78	--
8	Ms. V. D. Nagrale	SE	ESD	86	---
9	Ms. Rakhi Khedkar	BE	MC	83	--
10	Mrs. V. S. Navale	SE	PCS	85	--
		BE	RES	78	---
11	Mr. V. B. Gawai	SE	CS	86	--
		BE	RES	87	--
12	Mrs. R. R. Itkarkar	TE	ITCCN	80	--
		BE	AVE	92	--
13	Ms. S. A. Takalkar	TE	BM	70	--

B. Record of Corrective measures taken: **(5)**

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 on platforms like NPTEL.

Table 9.2.9 Summary of Corrective Actions

Description	2023-24				2022-23				2021-22				2020-21			
	TERM-I		TERM-II		TERM-I		TERM-II		TERM-I		TERM-II		TERM-I		TERM-II	
	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P
Number of faculty members receiving corrective measures	1	3	4	3	2	4	2	1	2	0	0	1	1	2	2	0

AISSMS COE, PUNE
DEPARTMENT OF E&TC ENGINEERING

FACULTY FEEDBACK SUMMARY
ACADEMIC YEAR: 2022-23 , SEMESTER: I

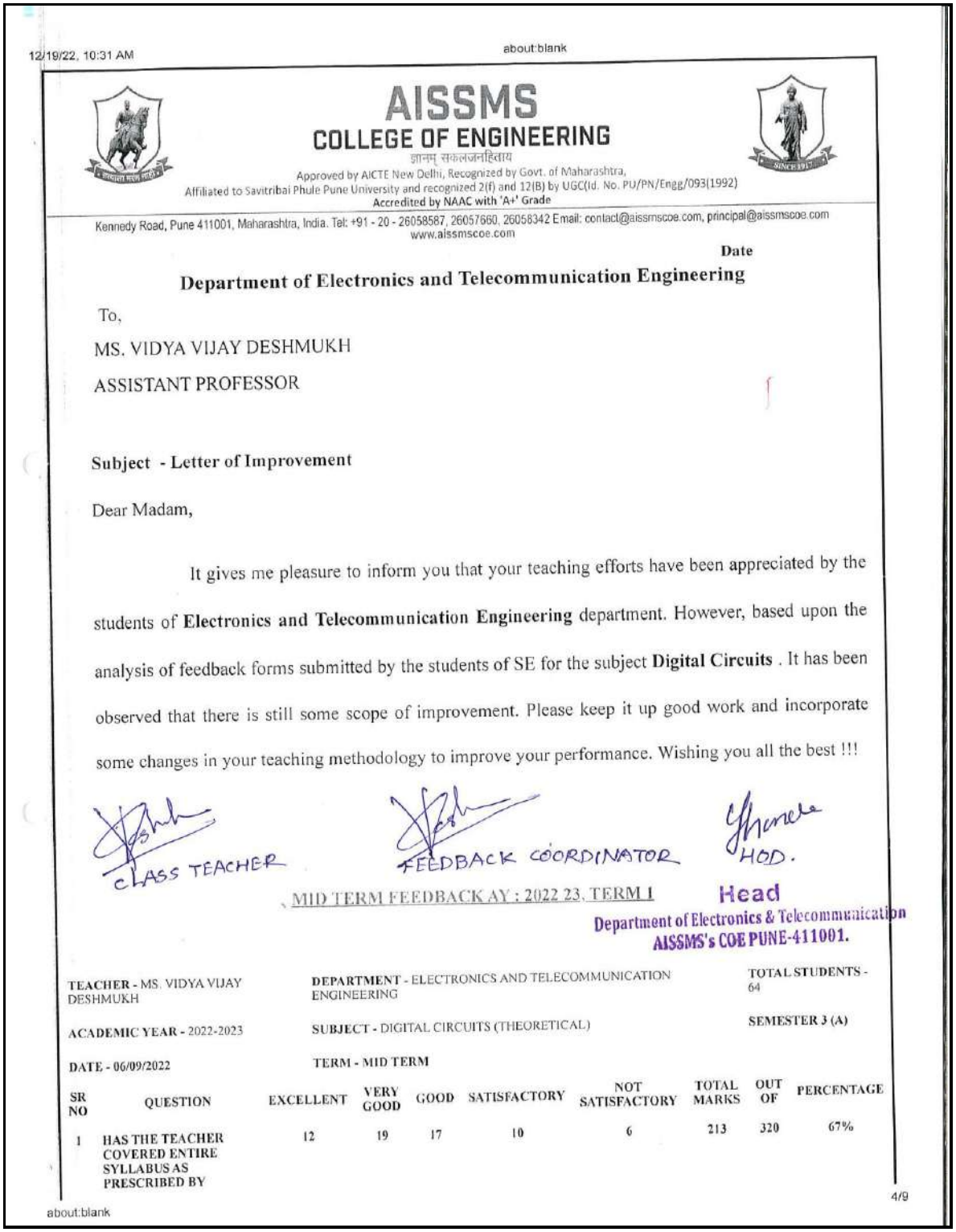
Sr No	Name Of The Faculty	Class	Subject	Th/PR	Mid Sem	End Sem	Remarks	Signature
1	Dr D G Bhalke	BE (E&TC)	RMT	TH	85		good	
		BE (E&TC)	RMT	PR	88			
2	Dr S B Dhonde	TE(E&TC)	CN	TH	84		good	
		TE(E&TC)	CN	PR	81			
		BE (E&TC)	RMT	TH	80	85		
		BE(E&TC)	RMT	PR	82	85		
2	Ms K B Chaudhari	SE (E&TC)	DS	TH	75	76	satisfactory	
		SE (E&TC)	DS	PR	76	77		
		BE(E&TC)	DL	TH	92	91		
3	Mr S B Dhekale	TE(E&TC)	Java	TH	89	93	feed back improved as compared with mid term (good)	
		TE(E&TC)	Java	PR	88	94		
		BE(E&TC)	Ajava	TH	87	87		
		BE(E&TC)	Ajava	PR	88	90		
4	Mr N P Mawale	TE(E&TC)	Skill Development	PR	77	80	Good	
		BE (E&TC)	VLSI	TH	86	85		
		BE (E&TC)	VLSI	PR	87	87		
5	Dr P P VAST	TE(E&TC)	Microcontroller	TH	86	88	Good	
		TE(E&TC)	Microcontroller	PR	87	88		
		TE(E&TC)	Skill Development	PR	85	88		
6	Ms V D Nagrale	SE (E&TC)	Skill Development	PR	67	68	for the subject Skill development need to Improve	
		TE(E&TC)	Database Management	TH	90	91		
		TE(E&TC)	Database Management	PR	92	92	Database management Very good	
7	MS V V DESHMUKH	SE (E&TC)	Digital Circuits	TH	61	75	Need to Improve the Digital circuits and for computer network	
		SE (E&TC)	Digital Circuits	PR	67	79		
		TE(E&TC)	Computer Networks	TH	92	100	Very good	
		TE(E&TC)	Computer Networks	PR	91	99		
8	Ms V S Navale	SE(E&TC)	Electrical Machines	TH	72	70	Need to Improve	
		SE(E&TC)	Electrical Machines	PR	75	71		
		SE (E&TC)	Skill Development	PR	76			
9	Ms Y P LAD	TE(E&TC)	Digital Communication	TH	87	91	Very good	
		TE(E&TC)	Digital Communication	PR	87	90		
		BE(E&TC)	EPD	TH	90			
10	Mr V B GAWAI	SE(E&TC)	Electronic Circuits	TH	79	77	Need to Improve	
		SE(E&TC)	Electronic Circuits	PR	79	76		
		SE(E&TC)	Skill Development	PR	79	78		
11	MS R R ITKARKAR	SE(E&TC)	Skill Development	PR	60		Very good	
		TE(E&TC)	Electromagnetics	TH	91	91		
		TE(E&TC)	Electromagnetics	TUT	90	91		
		BE(E&TC)	MIOT	TH	88			
		BE(E&TC)	MIOT	PR	84			
12	Ms P P Tayade	SE (E&TC)	Digital Circuits	PR	69	75	Need to Improve for DC.	
		SE (E&TC)	Data Structures	PR	24			
		BE(E&TC)	Cloud computing	TH	92	88		
		BE(E&TC)	Cloud computing	PR	91	90		

Deshmukh
Ms V V Deshmukh
(Feed back Coordinator)

Head
Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001
Dr. S. B. Dhonde
HOD (E&TC)

Figure 9.2.2: Teachers' Feedback Summary

Letter of Improvement for Mid Term Feedback



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www.aissmscoe.com

Date

Department of Electronics and Telecommunication Engineering

To,

MS. VIDYA VIJAY DESHMUKH

ASSISTANT PROFESSOR

Subject - Letter of Improvement

Dear Madam,

It gives me pleasure to inform you that your teaching efforts have been appreciated by the students of **Electronics and Telecommunication Engineering** department. However, based upon the analysis of feedback forms submitted by the students of SE for the subject **Digital Circuits** . It has been observed that there is still some scope of improvement. Please keep it up good work and incorporate some changes in your teaching methodology to improve your performance. Wishing you all the best !!!

CLASS TEACHER FEEDBACK COORDINATOR HOD.

MID TERM FEEDBACK AY : 2022 23, TERM I

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

TEACHER - MS. VIDYA VIJAY DESHMUKH | DEPARTMENT - ELECTRONICS AND TELECOMMUNICATION ENGINEERING | TOTAL STUDENTS - 64

ACADEMIC YEAR - 2022-2023 | SUBJECT - DIGITAL CIRCUITS (THEORETICAL) | SEMESTER 3 (A)

DATE - 06/09/2022 | TERM - MID 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	12	19	17	10	6	213	320	67%

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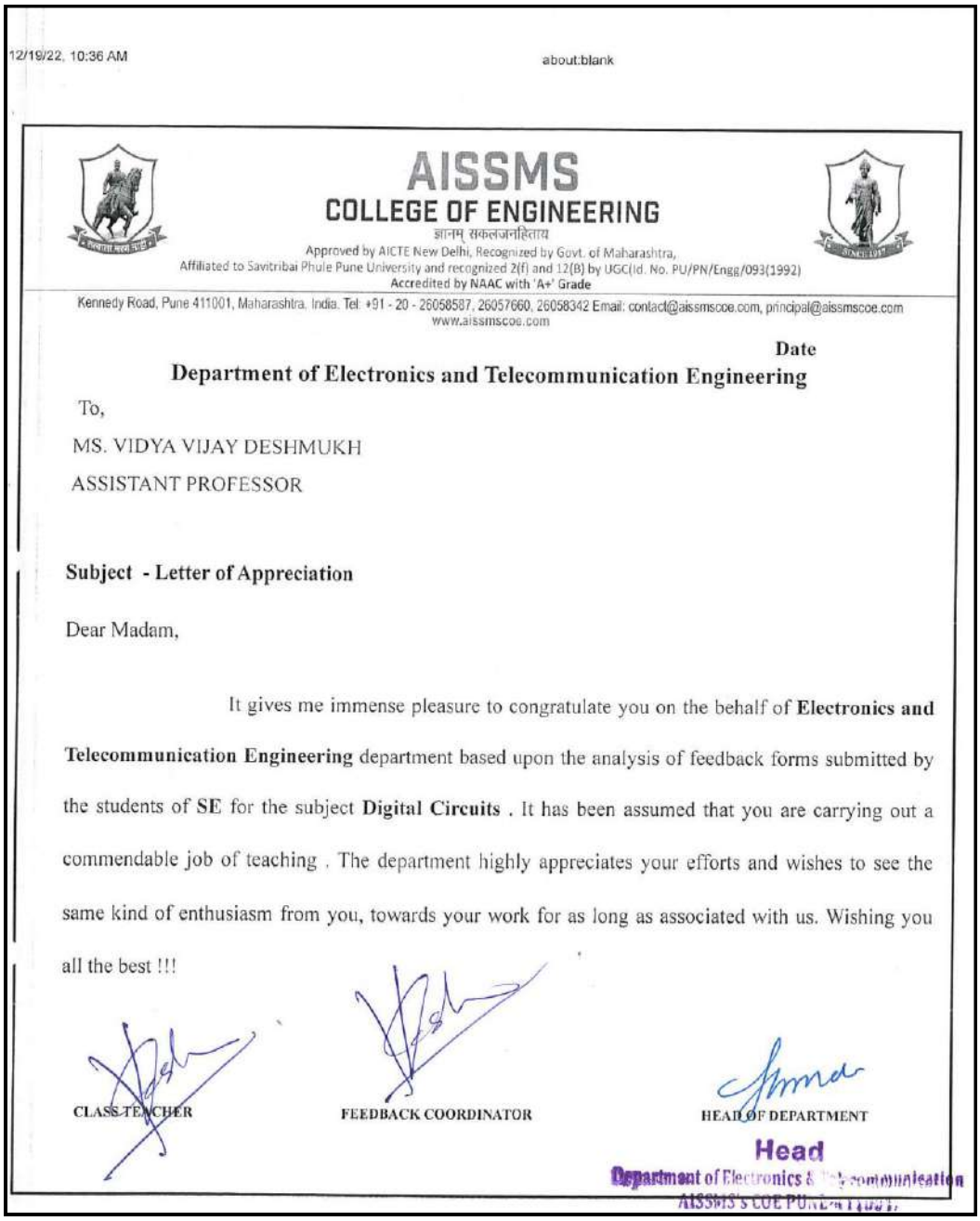
Figure 9.2.4: Letter of Improvement for Mid Term Feedback

Letter of Appreciation for End Term Feedback



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www.aissmscoe.com

Date

Department of Electronics and Telecommunication Engineering

To,

MS. VIDYA VIJAY DESHMUKH

ASSISTANT PROFESSOR

Subject - Letter of Appreciation

Dear Madam,

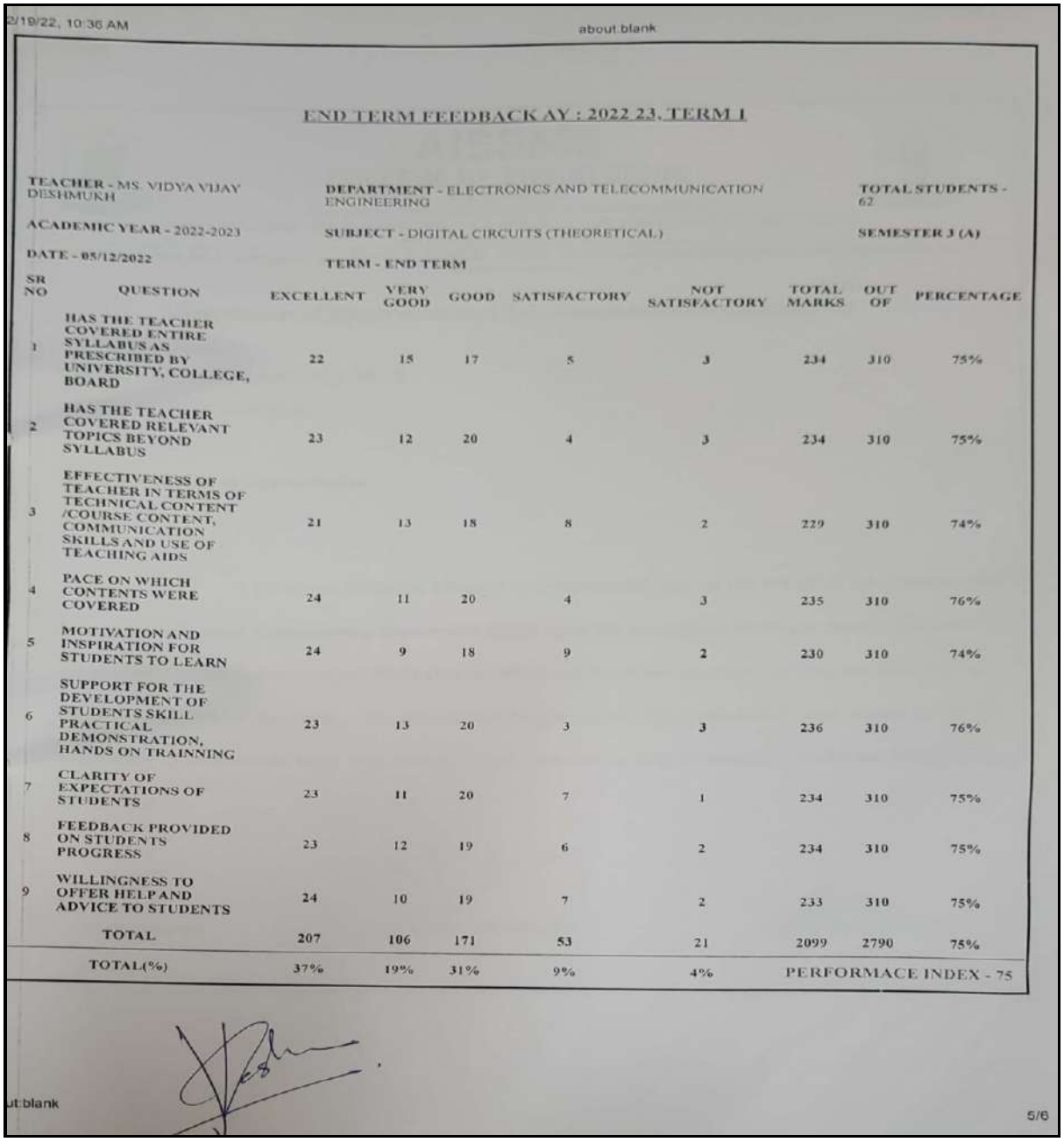
It gives me immense pleasure to congratulate you on the behalf of **Electronics and Telecommunication Engineering** department based upon the analysis of feedback forms submitted by the students of **SE** for the subject **Digital Circuits** . It has been assumed that you are carrying out a commendable 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

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

Figure 9.2.5: Letter of Appreciation for End Term Feedback

ERP Feedback Calculation Sheet:



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END TERM FEEDBACK AY : 2022 23, TERM I

TEACHER - MS. VIDYA VIJAY DESHMUKH | DEPARTMENT - ELECTRONICS AND TELECOMMUNICATION ENGINEERING | TOTAL STUDENTS - 62

ACADEMIC YEAR - 2022-2023 | SUBJECT - DIGITAL CIRCUITS (THEORETICAL) | SEMESTER 3 (A)

DATE - 05/12/2022 | 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	22	15	17	5	3	234	310	75%
2	HAS THE TEACHER COVERED RELEVANT TOPICS BEYOND SYLLABUS	23	12	20	4	3	234	310	75%
3	EFFECTIVENESS OF TEACHER IN TERMS OF TECHNICAL CONTENT /COURSE CONTENT, COMMUNICATION SKILLS AND USE OF TEACHING AIDS	21	13	18	8	2	229	310	74%
4	PACE ON WHICH CONTENTS WERE COVERED	24	11	20	4	3	235	310	76%
5	MOTIVATION AND INSPIRATION FOR STUDENTS TO LEARN	24	9	18	9	2	230	310	74%
6	SUPPORT FOR THE DEVELOPMENT OF STUDENTS SKILL PRACTICAL DEMONSTRATION, HANDS ON TRAINNING	23	13	20	3	3	236	310	76%
7	CLARITY OF EXPECTATIONS OF STUDENTS	23	11	20	7	1	234	310	75%
8	FEEDBACK PROVIDED ON STUDENTS PROGRESS	23	12	19	6	2	234	310	75%
9	WILLINGNESS TO OFFER HELP AND ADVICE TO STUDENTS	24	10	19	7	2	233	310	75%
	TOTAL	207	106	171	53	21	2099	2790	75%
	TOTAL(%)	37%	19%	31%	9%	4%	PERFORMACE INDEX - 75		

about:blank 5/6

Figure 9.2.6: ERP Feedback Calculation Sheet

9.3	Feedback on facilities	05

Feedback collection, analysis and corrective action **(5)**

Different facilities are provided to the students to enhance their overall development. A few of them are cultural, sports, and technical events consisting of workshops, seminars, etc. Very good infrastructure facilities are also provided to the students. Every year at the end of the second semester, i.e. in the months of March and April, one feedback form is delivered to the students by ERP, and the students fill it out. The feedback form questions are structured in such a way that the institute can receive clear feedback on how to enhance the facilities. Corrective actions are being made to ensure that students have adequate facilities for the coming academic year.

Questions are as follows:

1. Class room infrastructure (boards, internet, LCD projector, etc.) and overall ambience
2. Laboratory facilities (boards, internet, computer, equipment, etc.)
3. Cleanliness and ambience of campus
4. Library, reading room and other library facilities
5. Sports, Cultural and Extra-curricular activities facilities (NSS, Annual functions, etc.)
6. Parking, security and proctorial services in the campus
7. Mentoring, Counselling, Redressal of grievances and support to students for admissions, examinations, etc.)
8. Support to training, placements and internships
9. Overall impression about infrastructure and facilities provided in the institute
10. Canteen facility and availability of drinking water

Following is a sample of Infrastructure and Facility feedback taken through ERP:

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ONLINE STUDENTS FEEDBACK ON INFRASTRUCTURE AND FACILITIES FOR A.Y. 2020-2021

SR NO	INFRASTRUCTURE AND FACILITIES	5 (EXCELLENT)	4 (VERY GOOD)	3 (GOOD)	2 (AVERAGE)	1 (POOR)	TOTAL
1	Online teaching support. (microsoft teams, zoom, google meet etc.)	92	64	20	7		187
2	Online laboratory facilities. (virtual lab, simulations, videos, recorded videos etc.)	60	59	46	14		187
3	Online library facilities and services. (support for course through coursera, moocs etc.)	62	63	34	18	10	187
4	Online mentoring, counseling and support to students.	76	63	28	13	4	187
5	Grievances/problems are Redressed/ resolved well in time. (examination, admission etc.)	85	59	29	8	8	187
6	Support for co-curricular Activities. (webinars, workshops etc.)	79	64	29	7	8	187
7	Online facilities provided for sports, cultural and extra-Curricular activities. (fit india, unlock	71	51	36	15	14	187
8	Support to students during lockdown period. (admission, fees payment form submission etc.)	90	50	26	11	10	187
9	Support for internship / project in lockdown period.	63	68	26	16	14	187
10	Overall impression about the facilities provided by the institute.	74	68	28	8	9	187
TOTAL		752	609	302	117	90	1870

Figure 9.3.1: Sample Infrastructure and Facility feedback taken through ERP

Feedback corrective action:

Based on the feedback, various corrective actions have been taken such as improvement in canteen facility, purified water supply, internet bandwidth, and cleanliness, and stationary availability, facility for co-curricular and extra-curricular facilities.

Details about Feedback and corrective actions is available on the college website

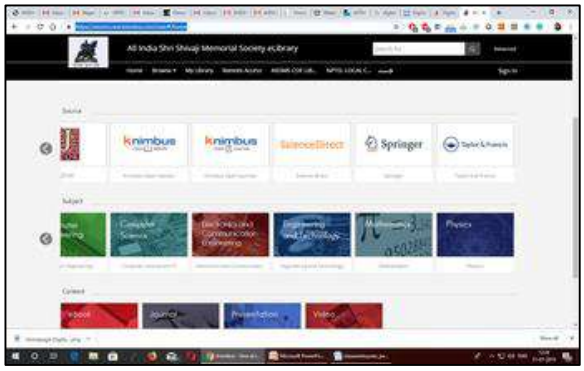
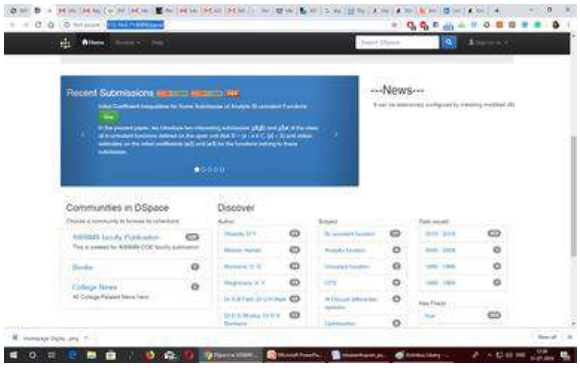
https://aissmscoe.com/wp-content/uploads/2023/05/27774_105_250.pdf

9.4	Self- Learning	05

A. Scope for self-learning: **(2)**

Institute has provided a large scope to students to learn on their own as per their interest. This is in the form of online and offline, on campus and off campus. AICTE's NPTEL platform has attracted students a lot at par with regular courses. Students can register online and learn at their pace. Online platforms such as Coursera, edX, IIRS are made available to students. Subscribed E-resources are IEEE, ASCE, ASME, J-GATE, McGraw Hill and Science Direct. Digital Library/Remote Access is Available.

Table 9.4.1: Details of Digital Library/Remote Access

	**Knimbus Digital Library and Remote Access** - https://aissms.new.knimbus.com/user#/home The AISSMS COE Library has subscribed to Digital Library. Remote Access to E resources facility is available under the platform.
Faculty Publications Repository -- http://172.16.0.71:8080/jspui/ Faculty Publications are archived under Dspace Repository. Department wise faculty publications can be accessed through this link in College LAN	
	**Calibre Digital Library** - http://172.16.2.101:8080/ The Calibre Digital Library has been set up for E books and previous year question papers students.

Link for DELNET Service - http://www.delnet.in/#http://164.100.247.26/

Following is the list of websites provided to all students for self-learning

Table 9.4.2: Details of websites

Sr. No.	Website	Description
1	www.coursera.org	Coursera is an education platform that partners with top universities and organizations worldwide, to offer courses online for anyone to take.
2	www.khanacademy.org	Khan Academy is a non-profit educational organization created in 2006 by educator Salman Khan with the aim of providing a free, world-class education for anyone, anywhere. The organization produces short lectures in the form of YouTube videos.
3	ocw.mit.edu/index.htm	MIT (Massachusetts Institute of Technology) Open Course Ware (OCW) is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity.
4	oli.cmu.edu/learn-witholi/see-our-free-opencourses/	The Open Learning Initiative (OLI) is a grant-funded group at Carnegie Mellon University, offering innovative online courses to anyone who wants to learn or teach.
5	www.udemy.com	Udemy.com is a platform or marketplace for online learning. It provides a platform for experts of any kind to create courses which can be offered to the public, either at no charge or for a tuition fee. Udemy provides tools which enable users to create a course, promote it and earn money from student tuition charges.
6	www.codecademy.com	Codecademy is an online interactive platform that offers free coding classes in 9 different programming languages including Python, Java, PHP, JavaScript (jQuery, AngularJS), and Ruby, as well as markup languages HTML and CSS. The platform also provides courses for learning command line and Git.
7	www.udacity.com	Learn for free with Udacity. Advance your career with courses built by industry leaders like Google, MongoDB, and Facebook.
8	www.codechef.com	CodeChef is a platform to help programmers make it big in the world of algorithms, computer programming and programming contests.
9	www.geeksforgeeks.org	Geeksforgeeks provides a variety of services for you to learn, thrive and also have fun. Free Tutorials, Millions of Articles, Live, Online and Classroom Courses ,Frequent Coding Competitions ,Webinars by Industry Experts, Internship opportunities and Job Opportunities.
10	www.interviewbit.com	InterviewBit is a platform to learn skills that you need for technology jobs. We help you polish your skills and get ready for the job, whether you are a fresh college graduate or a working professional.

11	www.spoj.com	The SPOJ platform is **centred** around an online judge system, which serves for the automatic assessment of user-submitted programs.
12	www.hackerrank.com	Hacker Rank is a technology hiring platform that is the standard for assessing developer skills for over 2,000+ companies around the world.
13	www.scaler.com	Scaler Academy is an online accelerator program that effectively enhances the coding skills of software professionals.
14	www.upskillcourses.com	Upskill is a free online boot camp that'll take you from beginner to advanced developer. The main focus of the course is teaching you web development, and it's a great place to start, even if you have no experience.
15	www.codeforces.com	Codeforces is a website that hosts competitive programming contests. It is maintained by a group of competitive programmers from ITMO University led by Mikhail Mirzayanov.
16	www.onlinejudge.org	An online judge is an online system to test programs in programming contests. They are also used to practice for such contests. Many of these systems organize their own contests.
17	www.edx.org	edX is a massive open online course (MOOC) provider. It hosts online university-level courses in a wide range of disciplines to a worldwide student body, including some courses at no charge. It also conducts research into learning based on how people use its platform.
18	www.w3schools.com	W3Schools is a web developers site, with tutorials and references on web development languages such as HTML, CSS, JavaScript, PHP, SQL, and JQuery, covering most aspects of web programming. The site derives its name from the World Wide Web (W3), but is not affiliated with the W3C. W3Schools was originally created in 1998, by Refsnes Data, a Norwegian software development and consulting company.
19	www.spoken-tutorial.com	The Spoken Tutorial project is the initiative of the 'Talk to a Teacher' activity of the National Mission on Education through Information and Communication Technology (ICT), launched by the Ministry of Human Resources and Development, Government of India.
20	www.vlab.co.in	To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web- resources, video-lectures, animated demonstrations and self-evaluation.
21	Google Code University	Google has created a number of resources to help computer science students, including courses on programming, web security, algorithms, and much more.

22	MIT OpenCourseWare	MIT has one of the largest collections of open courseware out there, including numerous offerings in computer science from some of the leading minds in the field.
23	Swayam - NPTEL	The National Programme on Technology Enhanced Learning, a project funded by the Ministry of Human Resource Development, provides **eLearning** through online Web and Video courses in Engineering, Sciences, Technology
24	https://learn.saylor.org/	Since 2008, the focus of the foundation has been its Free Education Initiative which has led to the creation of 241 courses representing 10 of the highest **enrolment** majors[clarification needed] in the US
25	https://www.simplilearn.com	Simplilearn offers a wide range of online courses and certification programs in disciplines such as Cyber Security, Cloud Computing, Project Management, Digital Marketing, and Data Science, among others.

B. Facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and its effective utilization (3)

Facilities available:

1. Inter Library Loan - Required books /Articles can be borrowed from member Library
2. Free access to digital resources ebooks
3. Remote access is available

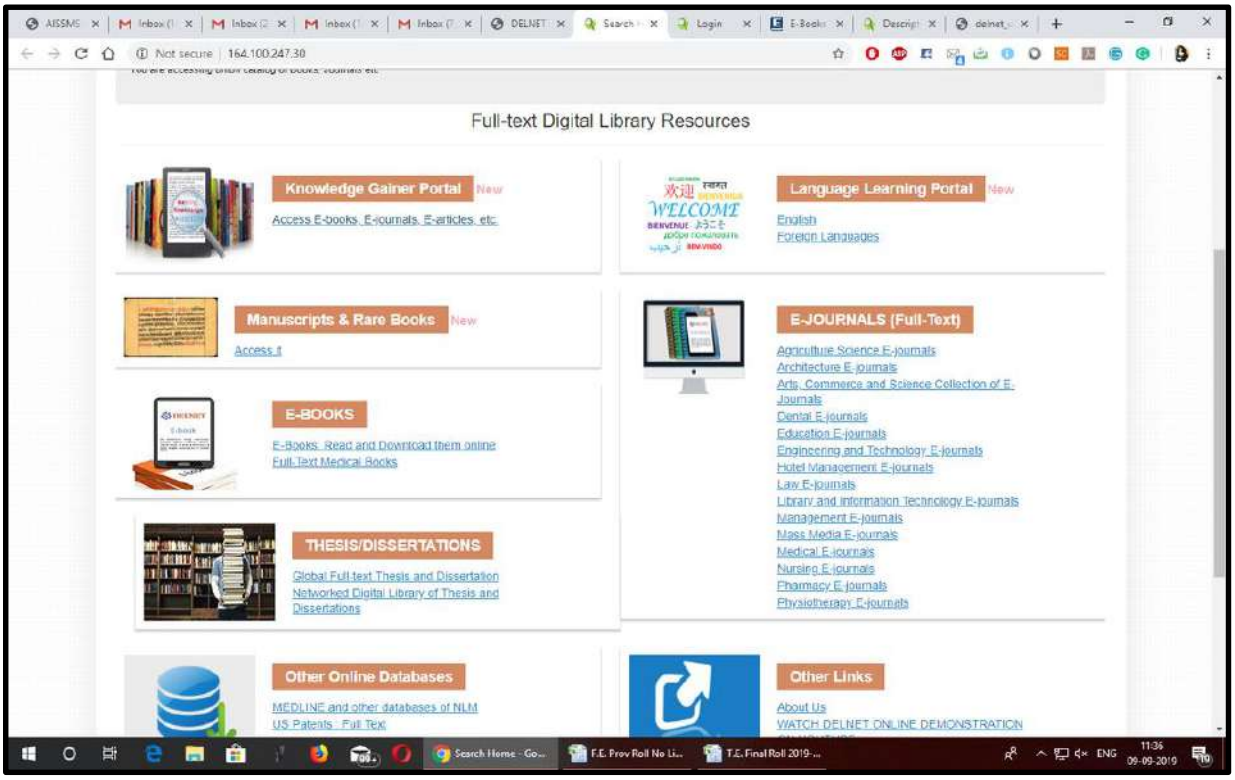


Figure 9.4.1: Full-text digital library resources

Table 9.4.3: Activity Registration and completion

Sr. No.	Type of Activity	No. of Students Registered	Successfully completed
AY 2022-23			
1	NPTEL Courses	125	1
2	IIRS	113	
3	Webinar/Seminar	348	348
4	Industry Internship	78	78
AY 2021-22			
1	NPTEL Courses	325	9
2	IIRS	127	
3	Coursera Courses (Students & Staff)	2937	168
4	EDX	995	236
5	Webinar/Seminar	1015	1015
6	Industry Internship	72	72
AY 2020-21			
1	NPTEL Courses	1043	26
2	Webinar/Seminar	420	420
3	Industry Internship	62	62

NPTEL Summery

2022-23
July to December 2022

Table 9.4.4: NPTEL Summary 22-23 Sem-I

Engineering Discipline	Name of Course and Date	No. of Student Enrolled	Number of Student Qualified	Number of faculty Enrolled	Number of faculty qualified	Course Brief
Chemical Engineering	July to December 2022	63	1	5	1	Swayam Mooc Courses
Civil Engineering	July to December 2022	93	18	30	0	Swayam Mooc Courses
Computer Engineering	July to December 2022	52	2	16	1	Swayam Mooc Courses
Electrical Engineering	July to December 2022	248	38	9	1	Swayam Mooc Courses
Electronics and Telecommunication Engineering	July to December 2022	51	1	21	0	Swayam Mooc Courses
Mechanical Engineering	July to December 2022	254	4	34	3	Swayam Mooc Courses
Prod Engineering	July to December 2022	126	1	21	1	Swayam Mooc Courses
Other	July to December 2022	10	0	0	0	Swayam Mooc Courses
Mathematics	July to December 2022	2	0	12	0	Swayam Mooc Courses
Total		**899**	**65**	**148**	**7**	

2023
Jan to Apr 2023

Table 9.4.5: NPTEL Summary 22-23 Sem-II

Engineering Discipline	Year	No. of Student Enrolled	Number of Student Qualified	Number of faculty Enrolled	Number of faculty qualified	Course Brief
Chemical Engineering	Jan to Apr 2023	69	1	3	1	Swayam Mooc Courses
Civil Engineering	Jan to Apr 2023	20	0	19	1	Swayam Mooc Courses
Computer Engineering	Jan to Apr 2023	45	0	5	0	Swayam Mooc Courses
Electrical Engineering	Jan to Apr 2023	103	6	12	2	Swayam Mooc Courses
Electronics and Telecommunication Engineering	Jan to Apr 2023	74	0	12	1	Swayam Mooc Courses
Mechanical Engineering	Jan to Apr 2023	845	5	41	6	Swayam Mooc Courses
Prod Engineering	Jan to Apr 2023	11	0	10	1	Swayam Mooc Courses
Other	Jan to Apr 2023	4	0	0	0	Swayam Mooc Courses
FE	Jan to Apr 2023	4	0	4	0	Swayam Mooc Courses
Total		**1175**	**12**	**106**	**11**	

2021-22
July to December 2021

Table 9.4.6: NPTEL Summary 21-22 Sem-I

Engineering Discipline	Year	No. of Student Enrolled	Number of Student Qualified	Number of faculty Enrolled	Number of faculty qualified	Course Brief
Business Administration	Jul-Dec 2021	1	0	0	0	Swayam Mooc Courses
Chemical	Jul-Dec 2021	103	10	0	1	Swayam Mooc Courses
Civil	Jul-Dec 2021	179	12	17	1	Swayam Mooc Courses
Computer	Jul-Dec 2021	60	1	11	3	Swayam Mooc Courses
Electrical	Jul-Dec 2021	48	1	12	3	Swayam Mooc Courses
Electronics and Telecommunication Engineering	Jul-Dec 2021	122	2	6	0	Swayam Mooc Courses
Industrial Engineering	Jul-Dec 2021	2	0	0	0	Swayam Mooc Courses
Instrumentation Engineering	Jul-Dec 2021	1	0	0	0	Swayam Mooc Courses
Mechanical	Jul-Dec 2021	485	6	10	1	Swayam Mooc Courses
Other Courses	Jul-Dec 2021	10	0	1	1	Swayam Mooc Courses
Production	Jul-Dec 2021	85	0	29	3	Swayam Mooc Courses
Mathematics/ physics	Jul-Dec 2021	0	0	6	0	Swayam Mooc Courses
Statistics	Jul-Dec 2021	0	0	3	1	Swayam Mooc Courses
	Jul-Dec 2021	0	0	0	0	Swayam Mooc Courses
Total	**Total**	**1006**	**32**	**95**	**14**	

Jan to Apr 2022

Table 9.4.7: NPTEL Summary 21-22 Sem-II

Engineering Discipline	Year	No. of Student Enrolled	Number of Student Qualified	Number of faculty Enrolled	Number of faculty qualified	Course Brief
Chemical Engineering	Jan to Apr 2022	280	15	4	0	Swayam Mooc Courses
Civil Engineering	Jan to Apr 2022	197	107	4	0	Swayam Mooc Courses
Computer Engineering	Jan to Apr 2022	76	1	13	1	Swayam Mooc Courses
Electrical Engineering	Jan to Apr 2022	57	0	8	0	Swayam Mooc Courses
Electronics and Telecommunication Engineering	Jan to Apr 2022	213	7	10	0	Swayam Mooc Courses
Mechanical Engineering	Jan to Apr 2022	609	7	16	1	Swayam Mooc Courses
Prod Engineering	Jan to Apr 2022	18	0	17	0	Swayam Mooc Courses
Other	Jan to Apr 2022	14	0	0	0	Swayam Mooc Courses
Mathematics	Jan to Apr 2022	0	0	4	0	Swayam Mooc Courses
Total		**1464**	**137**	**76**	**2**	

2020-21
Jul-Dec 2020

Table 9.4.8: NPTEL Summary 20-21 Sem-I

Engineering Discipline	Year	No. of Student Enrolled	Number of Student Qualified	Number of faculty Enrolled	Number of faculty qualified	Course Brief
Chemical Engineering	Jul-Dec 2020	180	0	21	1	Swayam Mooc Courses
Civil Engineering	Jul-Dec 2020	509	6	43	7	Swayam Mooc Courses
Computer Engineering	Jul-Dec 2020	134	6	13	1	Swayam Mooc Courses
Electrical Engineering	Jul-Dec 2020	172	1	31	7	Swayam Mooc Courses

Electronics Engineering	Jul-Dec 2020	257	10	22	1	Swayam Mooc Courses
Electronics and Telecommunication Engineering	Jul-Dec 2020	520	16	60	14	Swayam Mooc Courses
Mechanical Engineering	Jul-Dec 2020	3				
Prod Engineering	Jul-Dec 2020	189	16	25	6	Swayam Mooc Courses
Other	Jul-Dec 2020	31	16	3	20	Swayam Mooc Courses
Mathematics	Jul-Dec 2020	0	0	8	0	Swayam Mooc Courses
Physics	Jul-Dec 2020	1	0	4	0	Swayam Mooc Courses
Statistics	Jul-Dec 2020	0	0	4	0	Swayam Mooc Courses
Total		**2036**	71	**269**	**57**	

Jan to Apr 2021

Table 9.4.9: NPTEL Summary 20-21 Sem-II

Engineering Discipline	Year	No. of Student Enrolled	Number of Student Qualified	Number of faculty Enrolled	Number of faculty qualified	Course Brief
Chemical Engineering	Jan to Apr 2021	57	1	9	0	Swayam Mooc Courses
Civil Engineering	Jan to Apr 2021	106	2	28	6	Swayam Mooc Courses
Computer Engineering	Jan to Apr 2021	198	1	11	1	Swayam Mooc Courses
Electrical Engineering	Jan to Apr 2021	57	3	11	0	Swayam Mooc Courses
Electronics Engineering	Jan to Apr 2021	359	5	14	0	Swayam Mooc Courses
Electronics and Telecommunication Engineering	Jan to Apr 2021	523	10	37	4	Swayam Mooc Courses
Mechanical Engineering	Jan to Apr 2021	28	0	32	2	Swayam Mooc Courses
Total		**1328**	**22**	**142**	**13**	

Table 9.4.10: Companies collaborated for internship

Sr. No.	Name of Collaborating Institute/ Collaboration Body
2022-23	
1	Tata Sons Ltd
2	Bubble AI
3	Healthcare Dignostic Ltd
4	eMomey solution
5	CSM Digital Technologies
6	Kalpataru
7	Automate Engineer's Ltd
8	Linkcode
9	Sunshine Power Electronics
10	Automic Engineers Pvt Ltd
11	ENCON
12	Dankel Tech
13	FirstEigen
14	BoLTs IOT
15	Schnell Technologies
16	Diligence Tech
17	neptune Enterprises
18	Teknik Engineers
19	Kalika Steel Private Ltd., Jalna
20	Chaitanya
21	Aviator Automation India
22	DRDO Pune
23	Society for Space Education Research and Development
24	Microcon
25	Elon
26	NETTOYER AUTOMOTIVE
27	Shiksha
28	Data Tech Labs
29	Picshort Private Limited
2021-22	
1	Tata Sons Ltd
2	Bubble AI
3	Healthcare Dignostic Ltd
4	eMomey solution
5	CSM Digital Technologies
6	Kalpataru
7	Automate Engineer's Ltd
8	Linkcode
9	Sunshine Power Electronics

10	ENCON
11	Dankel Tech
12	First Eigen
13	BoLTs IOT
14	Schnell Technologies
15	Diligence Tech
16	eptune Enterprises
17	Teknik Engineers
18	Kalika Steel Private Ltd., Jalna
19	Shiksha
20	Chaitanya
21	Aviator Automation India
22	DRDO Pune
23	Society for Space Education Research and Development
24	Microcon
25	ELON
26	NETTOYER AUTOMOTIVE
27	Picshort Private Limited
2020-21	
1	IndEyes

Figure 9.4.2: NPTEL Certificate: Sample

Figure 9.4.3: Coursera Certificate: Sample

9.5	Career Guidance, Training, Placement	10

A. Availability of career guidance facilities (2)

Centre for Information Training and Placement (CITP), a common section has been formed to cater Trainings, Placements and for Career guidance to students by taking help of Alumni strength and interaction with industry. The CITP has a well-established infrastructure to cater the said services. The career guidance to students is done at well-structured one to one mentoring and through professional counselling. Pre-placement and industry specific training are done at every stage of their undergraduate studies. Student's inclination towards career is identified at first year level. In their second year studies, communication and soft skills are honed. Aptitude required for employment in general is prepared at third year level. Company specific training with contemporary knowledge is enhanced in the final year of their study. The CITP respects "One student one job policy".

The policy is elaborated as follows:

1. The companies visiting the campus are divided into IT/Software companies (product, service based) and Core Companies (Non IT/Software) (Manufacturing, service providers).
2. Companies are invited and scheduled on the basis of following parameters:
   a. Eligibility criteria, opportunities for all.
   b. Job profile and growth prospects.
   c. The package being offered by the company.
   d. Past record of recruitment at AISSMS COE.
   e. Feedback from the students regarding the company.
3. If a company prefers to have a common selection process for our institute students along with nearby Engineering institutes, the selection drive is conducted either by our institute or by the other institute after discussion with participating institutes.
4. If the market situation and job scenario necessitate a revision in the Placement Policy, it will be done in a manner so as to maximize the benefit to the student community as a whole.

A. Eligibility and Registration

1. UG, PG and PhD scholars' placement will happen round the year.
2. All students who expect to graduate from the Institute by the end of the academic year and are seeking employment, may register for campus placements.
3. Registration for all programmes will be done before the start of the academic year.
4. Campus placement is a facility provided for the students. Registration is not compulsory. Students not interested in placement are advised not to register for placement.
5. Each registered student will be given access to the placement notices, company announcements and to upload resumes.

B. Resume

1. Students are advised to read the announcements made, go through the company website and apply only if interested.
2. Students are expected to follow the institute resume template available in the placement website for preparing the resumes.
3. The details given in the resume have to be genuine and any student found violating this rule will be disallowed from the placement for the rest of the academic year.
4. Students have to upload and submit their resumes on the website to individual companies well before the deadline. Resume once submitted cannot be modified.
5. Students are advised to avoid last minute uploading, as it may lead to delays and some may even be left out.

C. Pre-Placement Talks (PPT)

1. Notices of the PPT will be published in the placement website well in advance. Students should be available 15 minutes before the scheduled start of the PPT.
2. Students interested in a particular company can attend its PPT.
3. Students must go through the complete selection process of a particular company.
4. Any clarification regarding salary break-up, job profile, place of work, bond details, etc. must be sought from the companies during PPT or interview.
5. **Dress Code:** Students must be formally dressed whenever they participate in any interaction with a company. CITP reserves the right to refuse permission to a student to attend the selection process/PPT, if they do not dress up formally.

D. Placement Process

1. It is the responsibility of the student to check announcements / notices / updated information / shortlisted names, etc. on the Placement Website. Students are expected to be punctual.
2. Attendance and punctuality:

a) A student who applies and gets shortlisted is bound to go through the entire selection process unless rejected midway by the company. Any student who withdraws deliberately in the middle of a selection process will be disallowed from placement for the rest of the academic year.

b) Latecomers for aptitude test / GD / interview will not be allowed to appear for the selection process.

3. Discipline:

a) Students should maintain discipline and show ethical behaviour in every action they take during the placement process. Any student found violating the discipline rules set by the company or defaming the Institute's name will be disallowed from the placements.

b) Students found cheating or misbehaving in the selection process (Test / GD / Interview) will be disallowed from the placements for the rest of the academic year.

c) Dress code should be maintained.

E. Job offers

1. **Pre-Placement Offers**: The following rules are applicable to companies that make PPO through the CITP Office.
   a. The offer of PPO (by the company) and its acceptance (by the student) shall be through CITP office only.
   b. Once a student accepts a PPO, he / she shall be de-registered from the placement process.

2. **Multiple Offers**: Each student is eligible for one CORE and one NON-CORE job offer only.
   a. If a student receives more than one offer in a session/day and if there is a delay in the announcement of results by some companies, the student is bound to accept/reject the job offers of the company whose results are declared in time.
   b. If the results are declared on the same session / day, the student may choose from the offers in hand and inform the CITP office of his/her choice, within 24 hrs of announcement of results.

3. Every student who is selected by a company is out of placement thereafter i.e. deregistered from the placement website.

4. Release of offer: All companies are requested to release the Offer and hand it over to the CITP office after the completion of the recruitment session.

5. Offer Acceptance: The students should inform the acceptance/rejection of an offer within 24 hours (on the day following the release of offer letter/mail). The company shall be intimated of the offer acceptance/rejection within three days of release of offer.

6. Waitlist: In case of those students who are placed and waitlisted by other companies, they will be given 2 days to accept the offer on hand.

   i. The Placement Office in the meantime will inform the company where he/she is waitlisted about his present offer.
   ii. The company that has waitlisted the students is required to release the offer within 24 hours, failing which the name of the student will be removed from the waitlist.

7. Offer of Job: Announcement on the website will be considered as firm offer. Offers received from companies must be collected as per timings in circular / notice. The responsibility of going through the offer letter and taking actions therein such as submission of documents lies entirely with the student. All offers (made by the companies) shall be through this office only. This office will not be in a position to resolve problems, if any, that may arise with respect to offers made directly to the student by the company.

8. Second option is given to selected students if the forthcoming offer is doubled the existing package or more than 8 LPA.

F. Miscellaneous

1. Medical Test: The CITP office assumes that every selected student will pass the medical test. If there is a rejection at this stage, the student registration will be renewed and the student becomes eligible again to seek placement through this office. Students should go through and understand instructions related to medical test carefully. The same should also be adequately clarified during PPT/interview.
2. Identity Cards: Students must bring their identity cards with them whenever they go through a placement process.
3. For all matters not covered by the above regulations, the CITP Office will use its discretion to take appropriate decisions. The decision taken by this office shall be binding on all students/scholars.

Innovative TRIZ-based training enables students to improve their performance in terms of understanding the technical concepts (basic as well as advanced) in a deeper and appropriate way. at a higher cognitive level. This prepares them to perform more effectively in interviews (HR and Technical rounds).

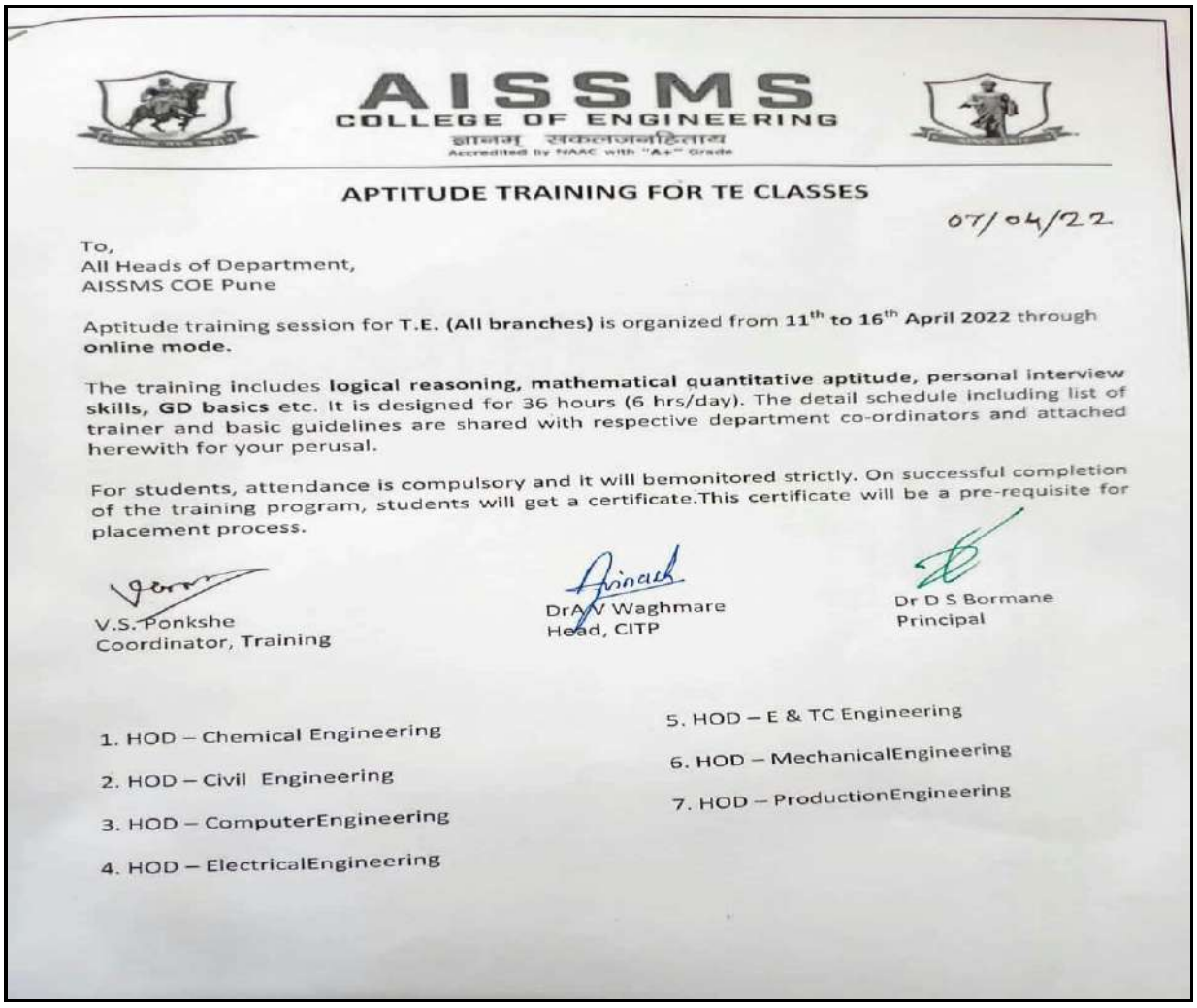
B. Counselling for higher studies (GATE/GRE, GMAT, etc.) (2)

Role of Department in Career Guidance to Students

Apart from the efforts taken by CITP, the department also works on its level to provide career guidance to students. Classes for GATE are organized by the department from mid-December to January. This is a sample time table of GATE classes conducted during the academic year 2021-22 for TE and BE students. Revision of important concepts had been carried out subject-wise. Problems that appeared in previous years' question papers were also discussed and solved.

The institute is observing its alumni pursuing higher studies from renowned national and international universities for which the students require to qualify and meet desired criteria.

Soft Skill and Aptitude Training: Soft skill and Aptitude trainings are conducted on regular basis. Pre-placement and industry specific trainings are carried out at every stage of their undergraduate studies. Student's inclination towards a career is identified at first year level. In their second year studies, communication and soft skills are honed. Aptitude required for employment in general is prepared at third year level. Company specific training with contemporary knowledge is enhanced in the final year of their study.



AISSMS
COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade

APTITUDE TRAINING FOR TE CLASSES

07/04/22

To,
All Heads of Department,
AISSMS COE Pune

Aptitude training session for **T.E. (All branches)** is organized from **11th to 16th April 2022** through **online mode.**

The training includes **logical reasoning, mathematical quantitative aptitude, personal interview skills, GD basics** etc. It is designed for 36 hours (6 hrs/day). The detail schedule including list of trainer and basic guidelines are shared with respective department co-ordinators and attached herewith for your perusal.

For students, attendance is compulsory and it will bemonitored strictly. On successful completion of the training program, students will get a certificate.This certificate will be a pre-requisite for placement process.

V.S. Ponkshe
Coordinator, Training

Dr A V Waghmare
Head, CITP

Dr D S Bormane
Principal

1. HOD – Chemical Engineering
2. HOD – Civil Engineering
3. HOD – ComputerEngineering
4. HOD – ElectricalEngineering
5. HOD – E & TC Engineering
6. HOD – MechanicalEngineering
7. HOD – ProductionEngineering

Figure 9.5.1: Notice for aptitude training classes

AISSMS
COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
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Soft Skill Training Sessions - Online
A.Y. 2021-22 (Term - II)

Class: T.E. **From - 11/04/22 to 16/04/22**

	Department	Division	Faculty Co-ordinator (with mobile no)	Name of GFM (with mobile no)	Name of Trainer	Contact No	Email
1	Chemical		Prof P.M. Warke (9823103089)		Pranav Thorat	7977889404	pr.thorat91@gmail.com
2	Civil	A	Prof V.S. Chavan (9767193755)	S A Chavhan (9960430643)	Pratiksha Tilekar	9604433127	pratikshatilekar85@gmail.com
3		B		Dr D V Wadkar(9730020695)	Chetan Manurkar	7773984154	chetanmanurkar92@gmail.com
4	Computer	A	Prof Monali Deshmukh (7030990816)	Mr. A. P. Kadam (94210 89450)	Shruti Purandare	9422616758	shrutip41@gmail.com
5		B		Mrs. Shikha Phachouly (77688 64108)	Jay Prakash	9542956419	vakatijayaprakash@gmail.com
6	Electrical		Prof V.S. Ponkshe (9284519408)	Prof V.S. Ponkshe (9284519408)	Musharraf	8793327574	mushimh@gmail.com
7	E & TC		Prof S. B. Dhekle (9049996452)		Mangesh Rethrekar	9112880561	mangeshretharekar@gmail.com
8	Mechanical	A	Prof Ansari (8983153332)	DSM (9921618501)	Mohit Mundra	9571091011	mail4mohitmundra@gmail.com
9		B		RAM (9822190513)	Anwar Rashid	7385180479	anwar.rashid0102@gmail.com
10	Mech S/W		Prof M.P. Bauskar (9730923304)	completed			
11	Production		Prof S.S. Kallurkar (8007959797)	Prof S.S. Kallurkar (8007959797)	Sandip Bhoyar	9923106220	sandip_bhoyar@yahoo.co.in

Figure 9.5.2: Soft skills training schedule

AISSMS
COLLEGE OF ENGINEERING
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DATE: 8th Nov 2020

[DEPARTMENT OF MECHANICAL ENGINEERING]

NOTICE: FOR GATE 2021 ASPIRANTS

T.E & B.E (MECHANICAL) & (MECHANICAL SANDWICH) STUDENTS FOR ACADEMIC YEAR 2020-21

Qualifying in GATE is a mandatory requirement for seeking admission and financial assistance to Postgraduate Programs (Master's and Doctoral) with the Ministry of Education (MoE) and other Government Scholarships Assistantships, subjected to the admission criteria of the admitting institute. The valid GATE score is also used by Public Sector Undertakings (PSUs) for their recruitment and by several other universities in India and abroad for the admissions.

In view of above subject Department of Mechanical engineering is organizing GATE 2021 exam preparation course. Interested Third year & Final year (Mechanical) & (Mechanical Sandwich) students are hereby informed to participate in GATE 2021 sessions which will be held from month of December-January by the subject expertise. Each session will be of minimum 2 hours in the concerned domain. The course will have pure emphasis on success enrichment in GATE 2021 exam over the said period.

Kindly furnish your information with the following G-form attached.

Link for enrollment: (Paste the link in browser)

https://forms.gle/yGVGzvHrBaLRVjJp6

Best of luck!

GATE 2021 Coordinator
N. N. Gotkhindikar

HOD Mechanical
Dr. B.D.Bachchhav

Figure 9.5.3 Notice for GATE aspirants' classes

Syllabus & Teaching Plan:

Sr. No	Subject	Faculty Name	Date	Remark
1	General Aptitude(Numerical Ability)			Self-study
2	Manufacturing engineering			
	I] Engineering Materials	NNG & MSS	21.12.2020 & 22.12.2020	
	II] Casting, Forming & joining processes	BDB	23.12.2020	
	III] M/C ing & M/C tool operations	SSP & DSM	24.12.2020 & 26.12.2020	
	IV]Metrology & Inspection	MPB	27.12.2020	
	V] CIM	MPS	28.12.2020	
3	Applied Mechanics & Design			
	I] Mechanics of materials (SOM)	PSG	29.12.2020	
	II] Theory of machines	ATT & SRP	30.12.2020 & 02.01.2021	
	III] Engineering Mechanics	MMS	03.01.2021	
	IV] Machine Design	RAM & DYD	04.01.2021 & 05.01.2021	
	V] Vibration	CSD	06.01.2021	
4	Engineering Mathematics	MKN	07.01.2021 & 16.01.2021, 17.01.2021	
5	Fluid Mechanics & Thermal Sciences			
	I] Fluid Mechanics	MUG	08.01.2021	
	II] Heat Transfer	MRD & SIN	09.01.2021 & 10.01.2020	
	III] Thermodynamics	GPL	11.01.2021	
	IV] RAC	CSC & MSD	12.01.2021 & 13.01.2021	
6	Industrial Engineering			
	I] Production Planning & control	SVC	14.01.2021	
	II] Operational Research	MRP	15.01.2021	

Figure 9.5.4: GATE aspirants' teaching plan

Glimpses of the event:

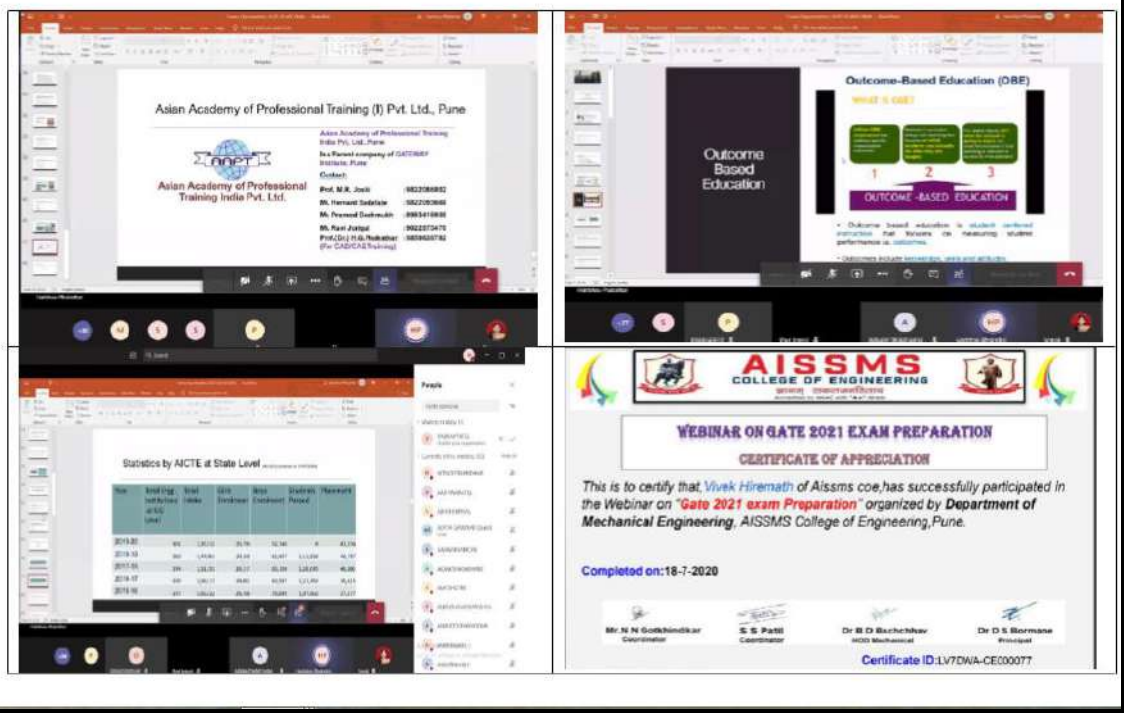


Figure 9.5.5: Glimpses of GATE awareness sessions

C. Pre-placement training **(3)**

Pre-placement training: Aptitude Test

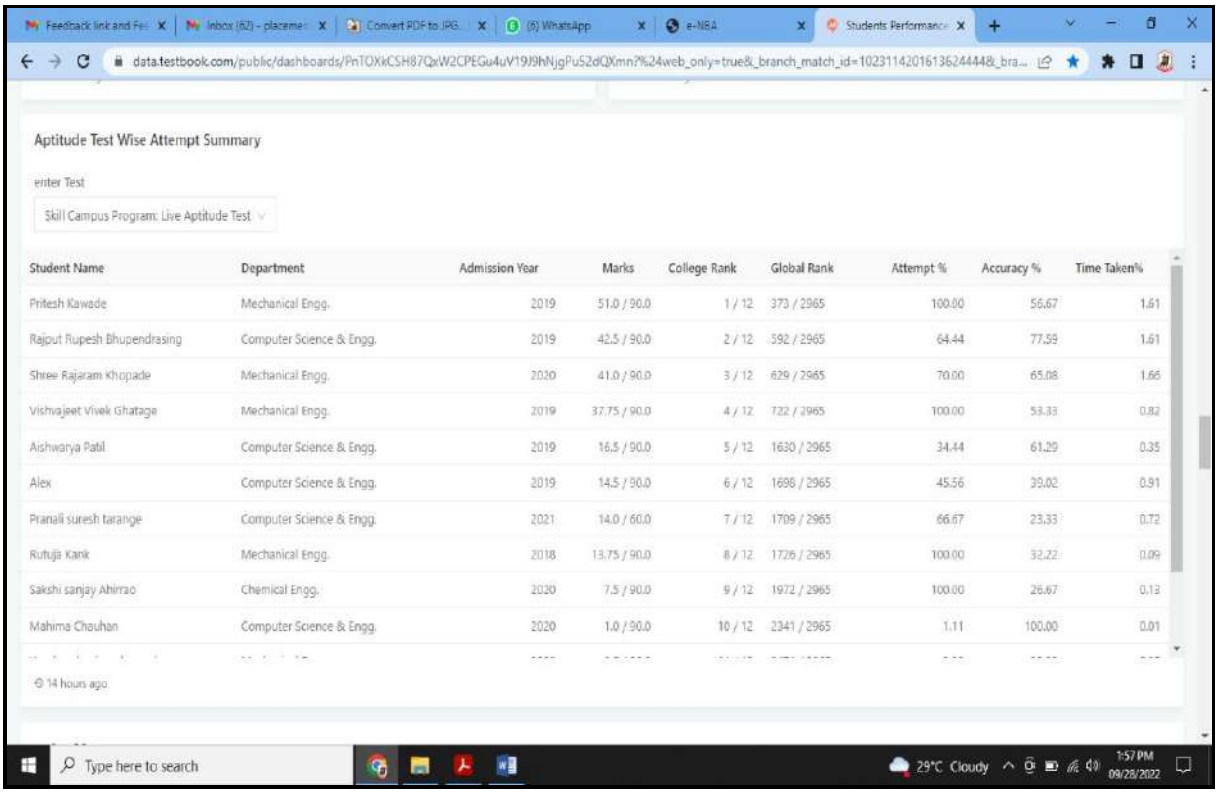


Figure 9.5.6: Aptitude testwise summary by Skill Campus Program

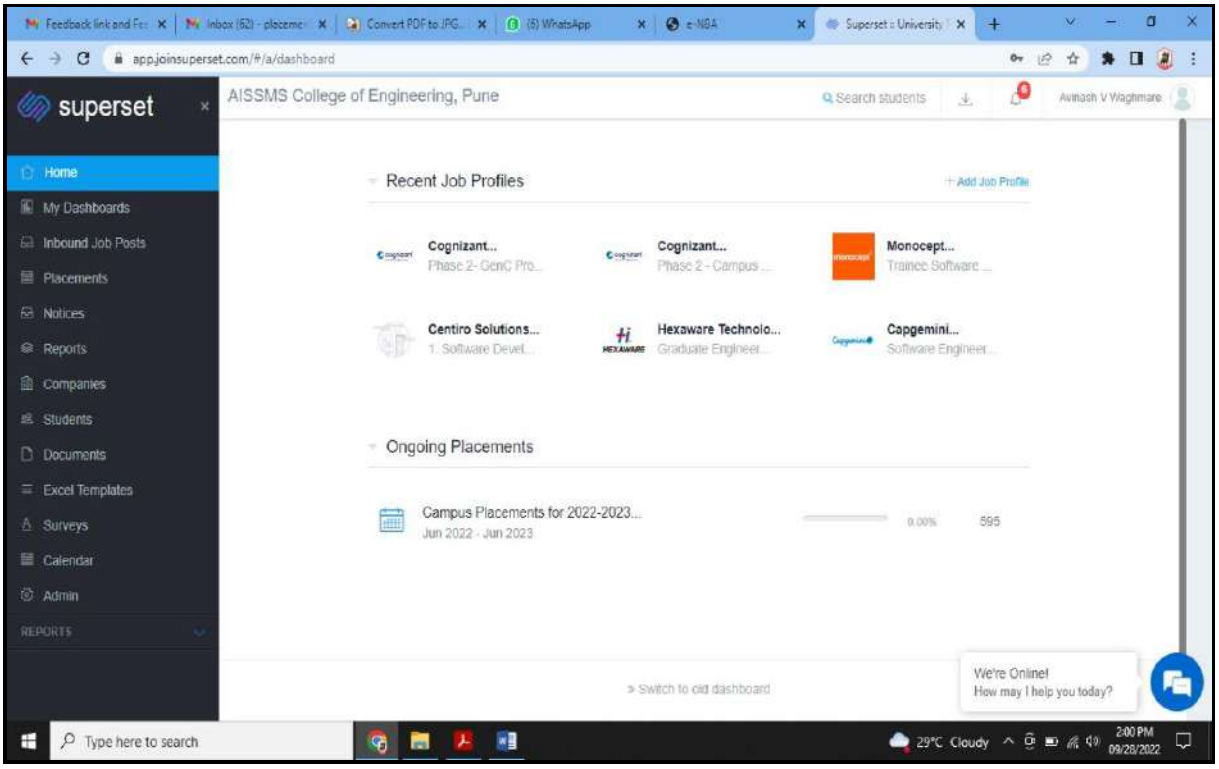


Figure 9.5.7: Dashboard of superset

D. Placement process and support (3)

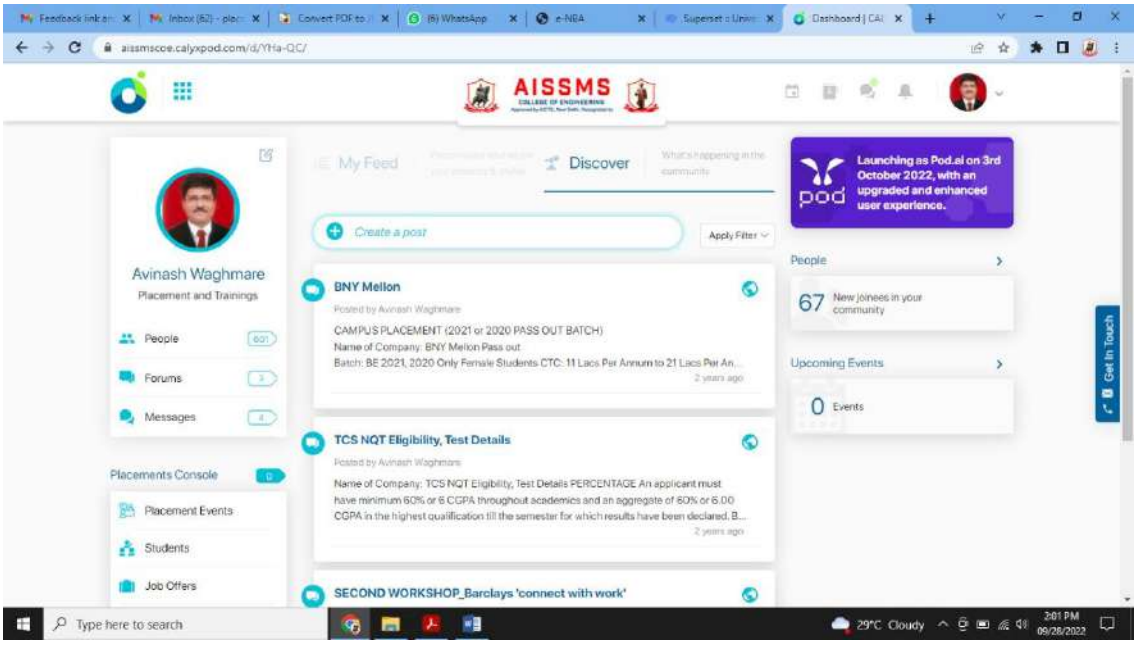


Figure 9.5.10: POD facility used for placement and training activities.

Summary of placements:

Table 9.5.1: Placement Summary of all Department

	CH	CV	CO	EL	EN TC	ME	MS	PS
2019-2020	38	41	90	27	NA	63	22	40
2020-2021	51	47	127	36	58	51	32	29
2021-2022	36	33	113	40	53	62	27	36
2022-2023	47	22	89	32	30	92	11	13

Placement of E and TC Department:

Table 9.5.2: Placement Summary of E & TC Department

Sr. No.	Academic Year	Number of Students Placed with single offer	Number of Students Placed with multiple offers
1	2022-23	30	34
2	2021-22	53	78
3	2020-21	58	85

9.6	Entrepreneurship Cell	05

A. Entrepreneurship initiatives: **(1)**

The Entrepreneurship and Skill Development Cell at AISSMS College of Engineering has been formed to focus on preparing successful entrepreneurs especially techno-preneurs for the society. The objective is to inculcate Indian cultural values amongst prospective entrepreneurs. The activities are carried out to enhance the eternal spirit of entrepreneurship amongst the students in addition to the basic necessity of academics. The entrepreneurial activities aren't new for the Institute. Many Alumni have established their enterprises and have shown sustainability in business and entrepreneurship. The academic departments have carried out entrepreneurial activities for educating and motivating students in respective areas in techno-entrepreneurship. A dedicated cell was formed as a requirement to inculcate current trends in Entrepreneurship Development in the prospective techno-preneurs. The E and SD Cell has been continually taking efforts to motivate the students to start with entrepreneurial thinking.

Table 9.6.1: Entrepreneurship and Skill Development Activities

Sr. No.	Details of Activity conducted	Name of Chief guest/ Coordinator	Date and duration	Total Number of Students & Teachers involved
2022-23				
1	Organized IIT-Bombay Entrepreneurship Pune Summit and AISSMS E&SD-cell	IIT-Bombay E-Cell & S. N. Chiwande, M. S. Swami Dr. A.V. Waghmare	26/11/2022	200
2	ESD-cell Seminar on Entrepreneurship Awareness, along with ENTC & Civil Engineering Department on	Mrs. Juhi Bose	04/11/2022	43
3	AISSMS CoE, ESD-cell organized a two-day training on the "Entrepreneur Awareness Program" in collaboration with BYST, Pune	Experts From BYST, Pune	29/08/2022 to 30/08/2022	37
4	"Entrepreneurship Awareness" for First Year Engineering Induction Programme	S. N. Chiwande & M. S. Swami	21/11/2022 to 24/11/2022	All FE Students
5	Organized and Coordinated Entrepreneurship Awareness Generation program sponsored by BYST, Pune in association with AISSMS COE, E&SD Cell, Pune	S. N. Chiwande & M. S. Swami	27/04/2023 to 28/04/2023	29

2021-22				
1	Organised Webinar on "Unfolding the Journey of a Successful Start-Up" under the head of ESD-cell	Claro Agro Solutions Private Limited on Microsoft Team AISSMS ESD Cell	24/06/2021	178
2	Organised Webinar on 'Career Opportunities for the R&D, Innovation, Start-up and Entrepreneurship' under the head of ESD-cell	Dr. Vijay Kumar Salvia, Presidential Advisor (Director General), International R&D Creativity Organization USA, INDIA on Microsoft Team	25/06/2021	83
3	Organised & Coordinated FE Induction Programme on Entrepreneurship Awareness	Activity coordinated with PMA, Pune	27/12/2021 to 30/12/2021	All FE Students
4	Organized webinar on 'Key to Start-Up" Mr Shrirang Gokhale; Mr Biman Gandhi, Mentor and Guide from BYST & PMA Pune	BYST & PMA Pune & Department of Production	12/10/2021	92
5	Organized offline Seminar on "Entrepreneurial thinking skills for Start-up & innovation" under ESD-cell	Dr. Madhulika Sonawane, Prajakta Joshi	24/03/2022	77
6	Organized webinar on "Career Options: Opportunities & Challenges" under ESD-Cell	Paras Doshi	02/05/2022	53
7	Organized Workshop on "Awareness Generation Program"	BYST Members	06/05/2022	71
8	Organized Seminar on Overseas Higher education Info & Awareness Session	Kanchane Kadage & Bijayeeta Dash	11/05/2022	39
9	Coordinate and attended Entrepreneurship Awareness Programme in CITP	BARTI & MCED, Pune	20/05/2022	53
2020-21				
1	Mystery behind successful entrepreneur	Mr. Sachin Patil	24/10/2020	65
2	Webinar on Design Thinking for Entrepreneurs	Ms. Garima Gurjar	26/10/2020	90
3	Webinar on "Presentation Skills"	Dr. Pragya Bajpai	03/11/2020	100
4	Interaction with Entrepreneur	Mr. Sharad Tandle	4/11/2020	20
5	MoU with BYST	Mr Biman Gandhi	5/12/2020	08
6	Webinar on "Communication Skills	Dr. Pragya Bajpai	05/11/2020	100

7	Webinar on "E-tendering"	Mr. Kiran Ghorpade	06/11/2020	150
8	Idea Generation and Evaluation	Mr. Biman Gandhi	31/12/2021	56
9	Entrepreneur Online Learning (EOL) Program -BYST	BYST Mentors	27/01/2021 to 28/01/2021	14
10	FE Induction – Introduction to Entrepreneur	Mr. S. N. Chiwande & Mr. M. S. Swami	04/02/2021 to 05/02/2021	556
11	Awareness Generation Program BYST	Mrs Ujwala Gosavi	24/2/2021	50
12	Interaction with our own young startup Entrepreneurs	Mr. O Dahiwal Mr. S. Mangrulkar, Mr. Sumit Ghodke	25/02/2021	83
13	Expert Talk	Mrs. Sujata Chandra	04/03/2021	70
14	Webinar on "Preparation for being industry ready"	Mr. G. Zadge & Mr. C. Bhutada	20/03/2021	80
15	Webinar on "Soft Skill: A must have asset for Engineers"	Dr. Utpal Ganatra	20/03/2021	120
16	Awareness Generation Programmes (AGP) and Counselling Session	BYST, Pune Mentors	26/03/2021 to 27/03/2021	05
17	Webinar on Career Success Mantra	Mr. Rajesh D. Kamath	01/05/2021	100
18	One-week STTP on "2D & 3D Modelling in STAAD Pro"	Mr. R. Udhyasankar	10/05/2021 to 14/05/2021	300

- An Entrepreneurship Awareness Camp sponsored by DST.

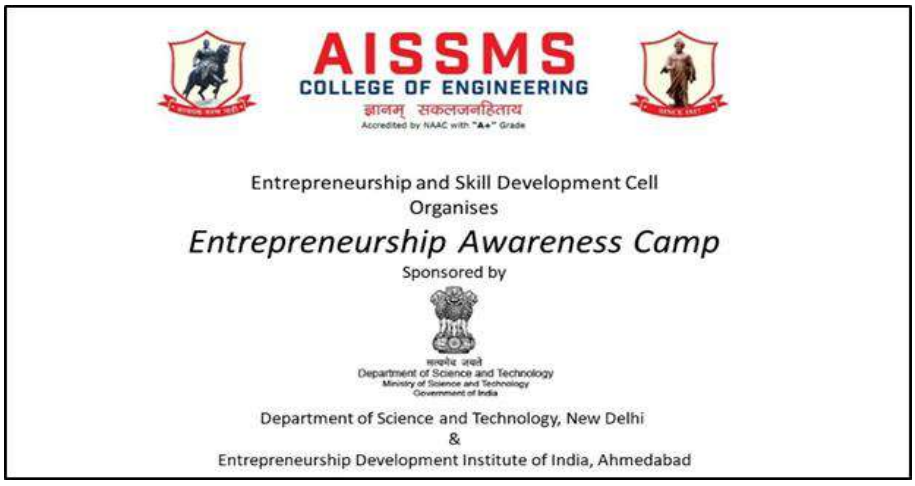
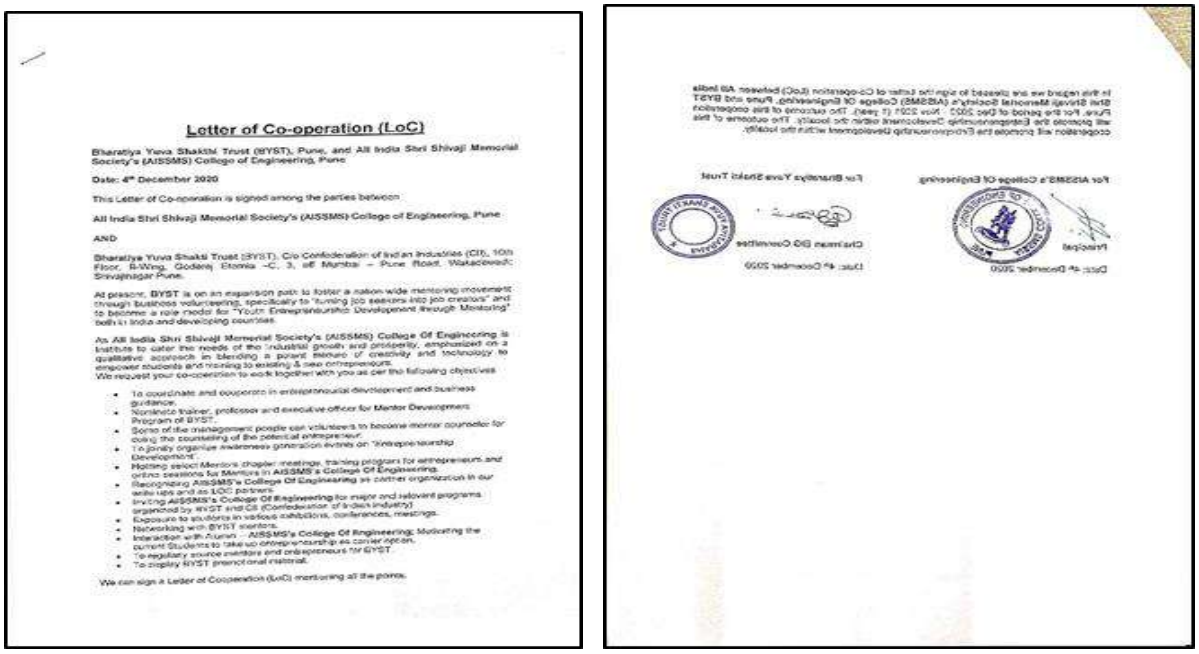


Figure 9.6.1: Entrepreneurship Awareness Camp

- MoU with Bharatiya Yuva Shakti Trust



Letter of Co-operation (LoC)

Bharatiya Yuva Shakti Trust (BYST), Pune, and All India Shri Shivaji Memorial Society's (AISSMS) College of Engineering, Pune

Date: 4th December 2020

This Letter of Co-operation is signed among the parties between

All India Shri Shivaji Memorial Society's (AISSMS) College of Engineering, Pune

AND

Bharatiya Yuva Shakti Trust (BYST), C/o Confederation of Indian Industries (CII), 10th Floor, B-Wing, Godrej Etamia -C, 3, off Mumbai – Pune Road, Wakadewadi, Shivajinagar Pune.

At present, BYST is on an expansion path to foster a nation wide mentoring movement through business volunteering, specifically to 'turning job seekers into job creators' and to become a role model for 'Youth Entrepreneurship Development through Mentoring' both in India and developing countries.

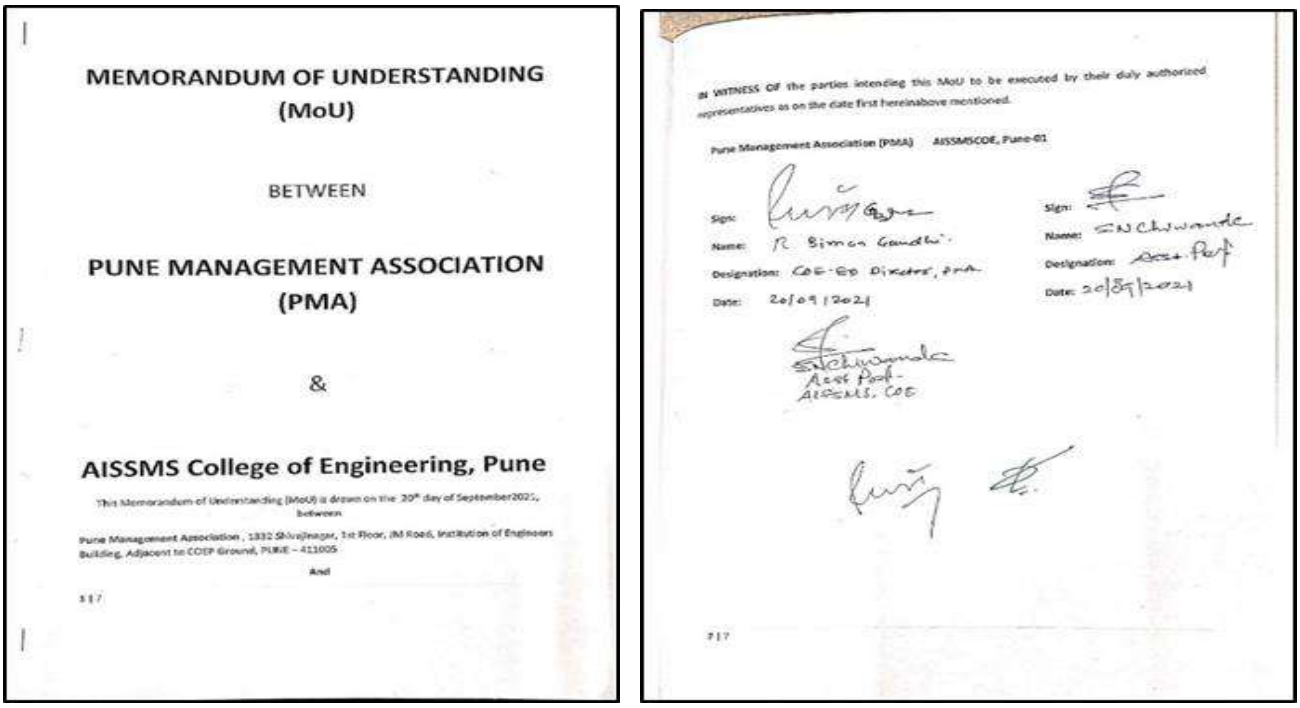
As All India Shri Shivaji Memorial Society's (AISSMS) College Of Engineering is institute to cater the needs of the industrial growth and prosperity, emphasized on a qualitative approach in blending a purest balance of creativity and technology to empower students and training to existing & new entrepreneurs.
We request your co-operation to work together with you as per the following objectives

- To coordinate and cooperate in entrepreneurial development and business guidance.
- Nominate trainer, professor and executive officer for Mentor Development Program of BYST.
- Some of the management people can volunteers to become mentor counselor for doing the counseling of the potential entrepreneur.
- To jointly organize awareness generation events on "Entrepreneurship Development".
- Hosting select Mentors chapter meetings, training program for entrepreneurs and online sessions for Mentors in AISSMS's College Of Engineering.
- Recognizing AISSMS's College Of Engineering as partner organization in our write ups and as LOC partners.
- Inviting AISSMS's College Of Engineering for major and relevant programs organized by BYST and CII (Confederation of Indian Industry).
- Exposure to students in various exhibitions, conferences, meetings.
- Networking with BYST mentors.
- Interaction with Alumni - AISSMS's College Of Engineering, Motivating the current Students to take up entrepreneurship as career option.
- To regularly source mentors and entrepreneurs for BYST.
- To deploy BYST premises and material.

We can sign a Letter of Cooperation (LoC) mentioning all the points.

Figure 9.6.2: MoU with Bharatiya Yuva Shakti Trust

- MoU with Pune Management Association



MEMORANDUM OF UNDERSTANDING
(MoU)

BETWEEN

PUNE MANAGEMENT ASSOCIATION
(PMA)

&

AISSMS College of Engineering, Pune

This Memorandum of Understanding (MoU) is drawn on the 20th day of September2021, between

Pune Management Association , 1332 Shivajinagar, 1st Floor, JM Road, Institution of Engineers Building, Adjacent to COEP Ground, PUNE – 411005

And

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IN WITNESS OF the parties intending this MoU to be executed by their duly authorized representatives as on the date first hereinabove mentioned.

Pune Management Association (PMA) AISSMSCOE, Pune-01

Sign:
Name: R Simon Gandhi
Designation: COE-Ed Director, PMA
Date: 20/09/2021

Sign:
Name: SN Chhawande
Designation: Asst Prof
Date: 20/09/2021

SNChhawande
Asst Prof-
AISSMS. COE

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Figure 9.6.3: MoU with Pune Management Association

- Activities organized by ED Cell.

AISSMS COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade

Entrepreneurship and Skill Development Cell

Activities Carried Out With The Cell

First Half (01 July 2020 to 31 December 2020)

Sr. No.	Details of Activity conducted	Name of Chief guest/ Coordinator	Date and duration	Total Number of Students participated
1	Mystery behind successful entrepreneur	Mr Sachin Patil	24/10/2020	65
2	Webinar on Design Thinking for Entrepreneurs	Ms Garima Gurjar	26/10/2020	90
3	Webinar on "Presentation Skills"	Dr. Pragya Bajpai	03/11/2020	100
4	Interaction with Entrepreneur	Mr. Sharad Tandle	4/11/2020	0 20 (Faculty)
5	MoU with BYST	Mr Biman Gandhi	5/12/2020	0 08 (Faculty)
6	Webinar on "Communication Skills	Dr. Pragya Bajpai	05/11/2020	100
7	Webinar on "E-tendering"	Mr. Kiran Ghorpade	06/11/2020	150
8	Idea Generation and Evaluation	Mr. Biman Gandhi	31/12/2021	56

Second Half (01 January 2021 to 30 June 2021)

Activities Carried Out With The Cell

S N	Details of Activity conducted	Name of Chief guest/ Coordinator	Date and duration	Total Number of Students participated
1	Entrepreneur Online Learning (EOL) Program - BYST	BYST Mentors	27/01/2021 to 28/01/2021 Two Days	14
2	FE Induction – Introduction to Entrepreneur	Mr S N Chiwande & Mr M S Swami	04/02/2021 to 05/02/2021 Two Hours each	556
3	Awareness Generation Program BYST	Mrs Ujwala Gosavi	24/2/2021 2 Hour	50
4	Interaction with our own young startup Entrepreneurs	Mr. G Dahiwal Mr S Mangrulkar , Mr. Sumit Ghodke	25/02/2021 Half Day	83 and 07(Faculty)
5	Expert Talk	Mrs. Sujata Chandra	04/03/2021 Half Day	70 and 10 (Faculty)
6	Webinar on "Preparation for being industry ready"	Mr G Zadge & Mr C Bhutada	20/03/2021	80
7	Webinar on "Soft Skill: A must have asset for Engineers"	Dr. Utpal Ganatra	20/03/2021	120
8	Awareness Generation Programmes (AGP) and Counselling Session	BYST, Pune Mentors	26/03/2021& 27/03/2021 Two days	05
9	Webinar on Career Success Mantra	Mr Rajesh D Kamath	01/05/2021	100
10	One week STTP on "2D & 3D Modelling in STAAD Pro"	Mr R. Udhyasankar	10/05/2021 to 14/05/2021 05 days	300

S N Chiwande
ESD-Cell

Figure 9.6.4: (a) and (b) Activities organized by Entrepreneurship Cell

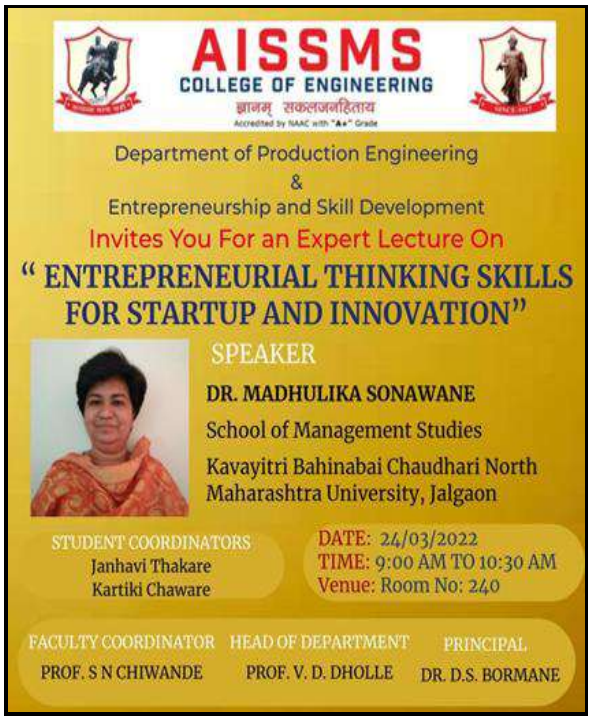
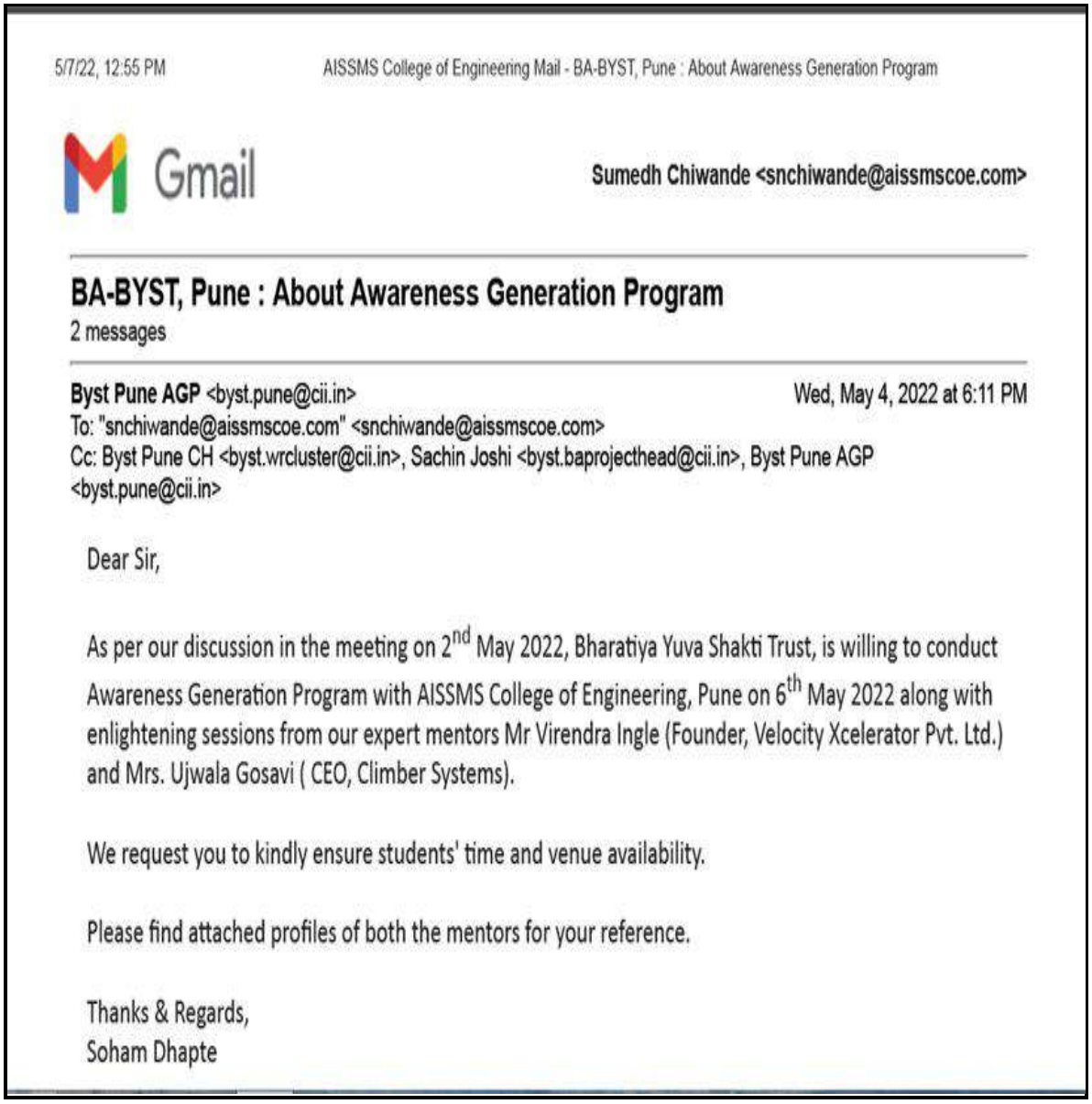


Figure 9.6.5: Glimpses of events by Entrepreneurship cell



5/7/22, 12:55 PM AISSMS College of Engineering Mail - BA-BYST, Pune : About Awareness Generation Program

Gmail Sumedh Chiwande <snchiwande@aissmscoe.com>

BA-BYST, Pune : About Awareness Generation Program

2 messages

Byst Pune AGP <byst.pune@cii.in> Wed, May 4, 2022 at 6:11 PM
To: "snchiwande@aissmscoe.com" <snchiwande@aissmscoe.com>
Cc: Byst Pune CH <byst.wrcluster@cii.in>, Sachin Joshi <byst.baprojecthead@cii.in>, Byst Pune AGP <byst.pune@cii.in>

Dear Sir,

As per our discussion in the meeting on 2nd May 2022, Bharatiya Yuva Shakti Trust, is willing to conduct Awareness Generation Program with AISSMS College of Engineering, Pune on 6th May 2022 along with enlightening sessions from our expert mentors Mr Virendra Ingle (Founder, Velocity Xcelerator Pvt. Ltd.) and Mrs. Ujwala Gosavi (CEO, Climber Systems).

We request you to kindly ensure students' time and venue availability.

Please find attached profiles of both the mentors for your reference.

Thanks & Regards,
Soham Dhapte

Figure 9.6.6: Notice of BYST awareness generation program

Figure 9.6.7: Glimpses of BYST awareness generation program

B. Data on students benefitted **(4)**

Regular Teaching, Guardian Faculty Member, Batch Mentoring are pillars of students' skills development. This gives students an opportunity to develop interest and build career orientation with regular learning. Our college decided to increase the number of Entrepreneurs from college day's itself. Students Participate in various activities like Engineering Today (Technical Event's), Shivanjali (Social Gathering), and Ashwamegh (Sports Competition). These events increase students' communication and team building skills. Also, AICTE events help students to showcase their talent at State and national events. Interaction with alumni, experts and entrepreneurs allows students to explore ideas with support. The following is the list of entrepreneurs reflecting the success stories.

Table 9.6.2: No. of student entrepreneurship in AY 2021-22

Sr. No.	Department	Number of Student Entrepreneurship
01	Patel Faiz Ahmed Anis Ahmud	LUSSO The Luxary Automaker, Pune

Table 9.6.3: No. of student entrepreneurship in AY 2020-21

Sr.No.	Department	Number of Student Entrepreneurship
01	Omkar Lande	Pratima Developers
02	Chinmay Deshpande	Steradix Solutions

Table 9.6.4: No. of student entrepreneurship in AY 2019-20

Sr.No.	Department	Number of Student Entrepreneurship
01	Hrishikesh Bangar	Heilsa Technologies
02	Ajil Saji	Ajil Fibertech
03	Saurabh Bedre	Dynamic Hydrotek
04	Saurabh Kodlangare	S K Classes
05	Yadnesh Kulkarni	Speed Cut CNC solutions

Table 9.6.5: No. of student entrepreneurship in AY 2018-19

Sr.No.	Department	Number of Student Entrepreneurship
01	Dhumal Vishal Chandrakant	Vaishnavi Enterprises
02	Apte Pradyumna Subhash	Proprietary Trader

Success stories
Success Story 1.
Name of Company: **Ajil Fibreteck**
Founder / Founders Name: Mr. Saji Ajil Saji Varkey
Sector - Service / Product: Industrial Machinery Manufacturing

Brief about company:
Ajil Fibretech is a foremost name betrothed in the business of Manufacturing, Service Providing and Supplying a broad range of Ambulance manufacturing as per AIS-125, FRP Cabins, FRP Toilet Cabin, MS Portable Cabins, Special purpose vehicle monocoque and chassis, customized caravans on monocoque and chassis, FRP Mudguard, FRP Bus Stop Shelters, FRP Swimming Pool, FRP

Dustbin, FRP Chamber Cover, FRP Bench, FRP Biogas Tank, FRP Sheet, FRP Street Light, FRP Urinal, FRP Dome and Vehicle Fabrication Service. Using supreme quality raw material and contemporary tools and machinery in their manufacturing process, the entire assortment of products provided by us are well tested to uphold their sturdiness and perfection.

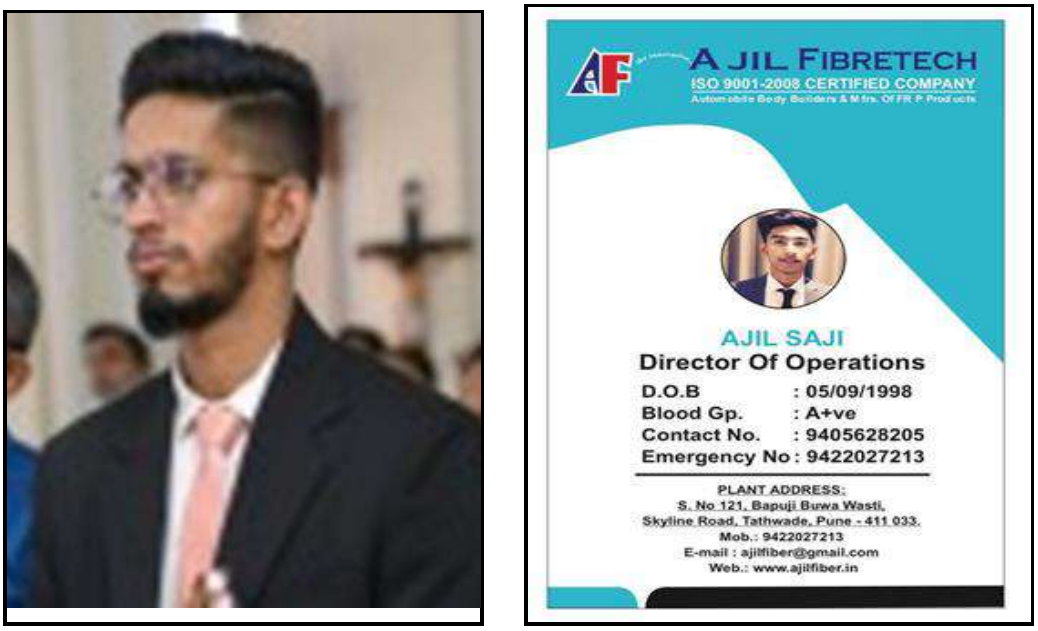


Figure 9.6.8: Details of a student entrepreneur

Success Story 2.
Name of Company: **Heilsa Technologies**
Founder / Founders Name: Mr. Hrishikesh Bangar
Sector - Service / Product: Hospitals and Health Care

Brief about the company:
Heilsa Technologies Private Limited is a Private incorporated on 28 June 2020. It is classified as Non-govt company and is registered at Registrar of Companies, Pune. Its authorized share capital is Rs. 1,000,000 and its paid up capital is Rs. 100,000. It is involved in Manufacture of optical instruments and photographic equipment. Heilsa Technologies Private Limited's Annual General Meeting (AGM) was last held on N/A and as per records from Ministry of Corporate Affairs (MCA), its balance sheet was last filed on N/A. Heilsa Technologies Private Limited's Corporate Identification Number is (CIN) U33208PN2020PTC191557 and its registration number is 191557.Its Email address is akshay.jagtap21@gmail.com and its registered address is Sector No.7, Plot No. 247 PCNTDA, Bhosari Pune. MH 411026 IN. Current status of Heilsa Technologies Private Limited is - Active.

Figure 9.6.9 Details of a student entrepreneur

9.7	Co-curricular and Extra-curricular Activities	10

A. Availability of sports and cultural facilities: (3)

The All India Shri Shivaji Memorial Society (AISSMS) has always encouraged and supported the co/curricular and extracurricular activities in its institutes. The institutes have also carried forward the legacy of society by promoting the co/curricular and extracurricular activities at their level. As part of this endeavor, the institute has a well/established Gymkhana Department and Art circle for effective and better coordination of various **sports and cultural activities** which are headed by Physical Director, Cultural In/charge and supported by the students' sports and cultural committees respectively. The society and institute fully support and encourage various sports and cultural activities with the motto that every student should not only be academically fit but also physically fit to face the challenges of life.

Institute supports students in co-curricular and extra-curricular activities. Institute runs various clubs such as drone club, robotics club, motorsports club, coding club, aero design club and so on. These students are supported financially and non-financially by the institute. Peer to peer learning, learning from alumni, result oriented activities, modern tool and software usages are the outcomes of these activities.

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

Cultural Activities: AISSMS COE conducts a state-level cultural and sports event "Ashwamedh", "Shahu Trophy" every year. The Students of various colleges throughout the state participate in the event. Annual social gathering "Shivanjali" is the most awaited event for students.

AISSMS COE students actively participate at various levels and win prizes continuously in cultural and literary events organized by other organizations. Events are Firodiya Karandak, Purushottam Karandak, Dnyanottam Karandak, Kaware Trophy etc.

Objectives:

1. To inculcate conducive atmosphere among students to portray talent in various extracurricular activities.
2. To encourage maximum participation in various events and competitions to help in developing qualities like team building, leadership and displaying talents.
3. To aim for excellence by winning maximum awards and recognition through various inter college, state and national level competitions.

Functions:

1. Creating awareness about planned annual events to encourage maximum participation from First Year Engineering
2. Planning of various events and forming various teams to participate in the events taking place simultaneously, and will work out programs semester wise.
3. Events like "Ashwamedh" and "Shivanjali" to be planned in an innovative style each year with some specific theme every year, which mark an important part of AISSMS'COE culture.

Games and Sports, facilities and qualified sports instructor.

Table 9.7.1: Qualified sports instructor's Details

Sr. N0.	Name of the Faculty	Date of Jointing	Qualification		Sports Achievement		No of Research Publication in Journal and Conference since Joining
			At Joining	Now	Inter-Zonal/ State Level	Inter-University	
1	D.r Mrs Manisha Manoj Kondhare	01/08 /2007	B A, B Com, M A B Ed (Phy.Edu.), M Ed (Phy.Edu.), SET (Phy. Edu.)	**M Phil** (Phy. Edu.) **Phd** (Phy.Edu)	Handball	Handball	**Conference** : 05 nos.
					Football	Football	**No of Research Publication in Journal**: 06 nos
					Half Marathon	--	
					10,000 m run	--	**Symposium:** 01 no
					5,000 m run	--	
					walking	--	

Table 9.7.2: Games and Sports, facilities

Sr. No.	Particulars	Indoor	Outdoor	
1	Sports facilities: 1. Ground	• Table Tables - 01 Nos • Gymnasium - 01 Nos • Chess - 04 Nos. • Carom - 02 Nos.	1. Playground of 172160 sq. feet is available for sports facilities.	
			A] Play Grounds:	**No of Grounds**
			• Cricket ground	01
			• Cricket Net Practice	02
			• Football Ground	02
			• Kabaddi ground	01
			• Kho-Kho ground	01
	2. TA and DA are paid and special allowance are granted to the selected students for tournament and for cultural activities for Inter-Zonal and Inter University tournament.			
			B] Court :	01
			• Volley ball court	01
	3. Cash prizes. Medals, trophies and certificates of appreciation are given to the sportsman.		• Basketball court	01
	4. Track suits and sports kits are given to the deserving sportsman.			

	5. Consumable materials for sports are purchased every year.		**C] Horse riding track**	
2.	Cultural facilities	• Musical instrument room		

Table 9.7.3: Total No of Players/ Students Participated in Sports:

Sr. No.	Name of the Events	No of Players participate in Sports activities
2022-23		
1	Cricket	20
2	Shooting	01
3	Volleyball	12
4	Athletics	03
5	Chess	05
6	Table Tennis (B + G)	06+03= 09
7	Football	21
8	Basketball (B + G)	12 + 09 = 21
9	Kabaddi	12
10	Swimming	01
11	GSA and JGSA	24
12	Inter Department	448
13	**Total No of Students:**	**557**
2021-22		
1	Cricket	17
2	Basketball	13
3	Volleyball	12
4	Badminton (B/andG)	08
5	Cross country	01
6	Athletics	02
7	Chess	05
8	Table Tennis (B + G)	06+05= 11
9	Football	20
10	Handball (B + G)	12 + 10= 22
11	Basketball (B + G)	14 + 11 = 25
12	Boxing (B + G)	06+ 01 = 07
13	Kabaddi	13
14	Hockey (B and G)	10+ 10= 20
15	GSA and JGSA	18

16	Inter Department	820
17	**Total No of Students:**	**1014**
2020-21		
1	FIT INDIA FREEDOM RUN	144
2	Biomechanics of Suryanamaskar Posture	70
3	'YOGA WEEK-2021'	The events were conducted on the online Zoom platform. The events were also going on You-tube Live. For the day 1 number of participants for Zoom was 314 and for You-tube live those were 67, for the day 2 the number of participants for Zoom were 403 and for You-tube live those were 89.
	Total No of Students:	**241**

Table 9.7.4: Awards /achievements: INTERNATIONAL

Year	Name of the award/ medal	National/ International	Sports	AADHAR / Student ID number	Name of the student
2020-2021	Browns Medal	Wako India Open International Kickboxing tournament organized by WAKO India Kickboxing Federation held at Talatora Indoor Stadium, Presidents Estate, New Delhi from 9th February 2020 to 13th February 2020	Kickboxing	18ME026	Viraj Deshpande

Table 9.7.5: Awards /achievements: State Level Competition organized by Maharashtra Association

Year	Name of the award/ medal	National/ International	Sports	AADHAR / Student ID number	Name of the student
2022-2023	Silver	34th Maharashtra State Senior Mens and Womens Kyorugi Taekwondo Championship 2022-2023 under 58 kg weight catefory held at Divisional Sports Complex, Nashik from 1 st October to 3rd October 2022	Kyorugi Taekwondo	Electronics and Telecommunication	Shri Ashutosh Sujit Waghjavkar

Table 9.7.6: Student participation in Co-curricular activities

Sr. No.	Name of Student	Name of the event	Date	Organized by	Award/Rank if any
AY 2022-23					
National Level					
1	Karan Khalate	BAJA SAEINDIA 2023	5th-8th April, 2023	SAEINDIA at Chitkara University	Participation
2	Arjun Taur	BAJA SAEINDIA 2023	5th-8th April, 2023	SAEINDIA at Chitkara University	Participation
3	Ashish Anthony and team	Technochill 2023	14th February 2023	ISHRAE Pune	2nd position
4	Aniket Kinkar	BAJA SAEINDIA 2023	5th-8th April, 2023	SAEINDIA at Chitkara University	Participation
5	Kunal Mor	BAJA SAEINDIA 2023	5th-8th April, 2023	SAEINDIA at Chitkara University	Participation
6	Ghanshyam Naik and team	SAEISS Aero Design Challenge 2022 (Regula)	01-03 September, 2022	SRM IST, Chennai	Participation
AY 2021-22					
International Level					
1	Omkar Khot	Hack for earth	Mar26	Hack for earth	10000 USD prize
2	Ashish Karande	Techo-Genesis 2022 (International Level Project Exhibition Cum Competition")	18-23 April 2022	MIT ADT University	Participation
3	Sudip Dongare				
4	Saurabh Jaurat				
5	Titiksha Jagtap				
6	Omkar Khot	UNLEASH Hack 2021	July 17 2021	United Nations Sustainable Development Goals	SELECTED IN GRAND FINALE

7	Team Garudashwa	International Aerodesign competition	04-11 April, 2022	SAE International	4th Rank in Technical Presentations Globally Advanced design: score 42.2180 Technical presentation: score 41.8833
8	Team Garudashwa	International Aerodesign competition	04-11 April, 2022	SAE International	stood first in Technical Presentation
	Team Garudashwa	m-Baja Static event	04-11 April, 2022	SAE International	2nd runner up - Manufacturing Award
National Level					
10	Team Resonance Racing	REEV Virtuals 2022	09-04-22	SAE India	1st runner up
11	Shubham Landage	REEV Virtuals 2022	09-04-22	SAE India	Distinguished Student Presenter
12	Team Resonance Racing	REEV 2021-22	09-04-22	SAE India	Group 4 Winners
13	Ameya Gandhi	University Thesis Program	30-Nov-21	Konecranes	Selected for next phase
14	Monali Patil				
15	Aashutoshsingh Pardeshi				
16	Ashish Karande				
17	Sudip Dongre				
18	Vinaya Gholap	tcs sustainathon	Oct 30	TCS	Consolation award
19	Pratik Kenche				
20	Divya Dhamal				
21	Tejas Lot				
22	Monali Patil	NES Innovation 2021	26/11/2021	Natarajan Education Society	
23	Omkar Khot				
24	Omkar Khot	STAR Hackathon	22/01/2021	VI	Participation
25	Omkar Khot	Vista 2021	03/08/2021	IIM Bangalore	Participation
26	Omkar Khot	Ingenious'21	16/09/2021	G.B.Pant University of Agriculture and	Participation

				Technology, Pantnagar	
27	Pratik Patil	BAJA SAEINDIA 2022	6th-10th April 2022	NATRAX, Pithampur	3rd prize-mBAJA category VDE suspension
28	Pratik Patil	BAJA SAEINDIA 2022	6th-10th April 2022	NATRAX, Pithampur	3rd prize-mBAJA category suspension
29	Srushti Shinde	Effi-cycle 2021	13th-21st Nov- 2021	SAEINDIA	Participation
30	Rohan Mane and Team	Effi-cycle Season 12	5th Dec 2021	SAEINDIA	Award: Best project plan
AY 2020-21					
International Level					
1	Swapnil Tole And Team	Team Garudashwa	8-Apr-2021	SAEINDIA 2021	First standing in Advanced Class Design and Fourth standing in Technical presentation
National Level					
1	Arihant Wardhamane	TIFAN 2020	Jan-Feb 2021	SAE India	Selected in final round
2	Rohit Garud	TIFAN 2020	Jan-Feb 2021	SAE India	Selected in final round
3	Bajirao Mahadev Pandare	TIFAN 2020	Jan-Feb 2021	SAE India	Selected in final round
4	Omkar Khot	BETIC eMedha Hackathon	8-16 May, 2021	BETIC	Winner of Impact to Reality award-Team 14
5	Omkar Khot	Toycathon 2021	Jan-21	Ministry of Education, Gov of India	Selected in grand finale
6	Yash Anecha				
7	Sanket Nartwadekar				
8	Omkar Khot	Maharashtra Hackathon 2021	Apr-21	MIT USA hacking medicine 2021	Winner: Team NIDAAN
9	Atharva Joshi				

10	Team Resonance Racing	Endurance	Apr-21	SAEINDIA 2021	All terrain performance award 3rd rank
11	Team Resonance Racing	BAJA SAEINDIA 2021			Overall award winner 4th rank
12	Dhananjay Kudche	Ace the Case	15-20 Aug 2020	IIM Calcutta	Participation
13	Lomesh Joshi	BAJA SAEINDIA 2021	25-Apr-21	Chitkara Univarcity	Participation
14	Aditya Jagtap	BAJA SAEINDIA 2021	25-Apr-21	Chitkara Univarcity	Participation
15	Rohit Garud	Smart India Hackathon	1-3 Aug 2021	Smart India Hackathon	Participation
16	Chinmay Hoonur	Effi-cycle (Virtual event)	1-3 Aug 2021	Smart India Hackathon	Participation
17	Prathamesh Choudhary And Team		15 Oct 2020	Lovely Professional University, Jalandhar	Prize: Best project plan Category: Advanced Electric
18	Rohan Mane	Formula Bharat 2021	Jan 23-Feb 2021	Mathworks	Participation
19	Abhishek Manjarekar	Formula Bharat 2021	Jan 23-Feb 2021,	Mathworks	Participation
20	Yash Gulhane	Formula Bharat 2021	Jan 23-Feb 2021,	Mathworks	Participation

Table 9.7.7: Glimpses of Sport Activity Achievements

Cultural Activities Achievements
Year 2022-23

1. Most Disciplined Team "Aata Kay": Dajikaka Gadgil Karandak
2. Vishwajeet Kale "Aata Kay": Consolation prize acting "Bharat Karandak"
3. Yogada Shinde "Aata Kay": Consolation prize acting "Bharat Karandak"
4. Ganesh Nikumbh "Aata Kay": Consolation prize acting "Bharat Karandak"
5. Atharva Palange, Ganesh Nikumbh and team "Aata Kay": Best Set "Bharat Karandak"
6. Firodia Karandak "Yaardhan Kandaro": Won Karandak, Won first Prize

Table 9.7.8: Glimpses of Cultural Activity Award 2022-23

	
Team "Aata Kay" receiving at the hands of Pradeep Vaidya Writer Director Actor, for "Dajikaka Gadgil Karandak"	Team "Aata Kay" Receiving Award for Best Set at the hands of Chairman Bharat Natya Mandal for "Bharat Karandak"

Cultural Activities Achievements
Year 2021-22

AISSMS'COE won Firodia Karandak 2022. Final round took place at "Lokshahir Annabhau Sathe Sabhagruha" on 19.03.2022. followed by result declaration on the same day. Our college received total 14 prizes, including the coveted trophy for the first time in the history of college. We have been participating in the same competition for past 25 years. Following are the details of the prizes won by our team. For the play titled "Bhoot Maarichya" under category of One Act play. The entire team comprised of 35 students from all the departments and years. Contribution by our alumni also played a vital role in motivating our team. With expert guidance from them.
The Prize distribution Ceremony took place on 24.03.2022 at the hands of renowned filmmaker, director, screenplay writer and actor, Mr. Anurag Kashyap at the same location, "Lokshahir Annabhau Sathe Sabhagruha". Following are the details of the prizes won:

1. Firodia Karandak 2022
2. Best Director: Shubham Vaidya & Meghna Nagdive
3. Actor male 2nd: Shubham Vaidya & Vishwjeet Kale
4. Best Music Team
5. Best Bass Guitar: Shyamkrisnan Nair
6. Singing Runnerup: Yogda Shinde
7. Best Backstage (Nepathya): Onkar Gavli, Malhar Pimple, Pooja Ghatge
8. Best Miniature Chroma: Atharva Adrakatti, Yash Tadas
9. Best Thread Art: Sanjyot Dhole, Kunal Kakde
10. Best Radium Art: Arya Polas, Ganesh Nikumbha
11. Best fight sequence: Meghna Nagdive, Arshad Ali Pathan
12. Choreography 3rd: Meghna Nagdive, Arshad Ali Pathan
13. Best contemporary Group: Meghna Nagdive, Arshad Ali Pathan, Sanjyot dhole, Ajit Sawre, Nupur Chandane, Sidhhi More
14. Best Prop Dance: Meghna Nagdive, Arshad Ali Pathan, Sanjyot dhole, Ajit Sawre, Nupur Chandane, Sidhhi More, Kunal Kakde, Anjali Pujari
15. Special award for technical skills

Table 9.7.9: Glimpses of Cultural Activity Award 2021-22

<table>
<tr><td>  </td><td> 
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<tr><td>Firodiya karandakt: Own First Prize, 24/03/2022</td><td>1. Maharashtra Times:</td></tr>
<tr><td> 
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<tr><td>2. Pudhari Newspaper</td><td>3. Lokmat Newspaper</td></tr>
<tr><td> 
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<tr><td>4. Sakal Newspaper</td><td>Yogesh Shinde (E & TC) awarded as winner in Group Performance in Firodiya Krandak 2022</td></tr>
</table>

B. NCC, NSS and other clubs **(3)**

A strong unit of **National Service Scheme (NSS)** organises various activities leading toward energy saving, environmental protection, rural development, sanitation, flood relief, conservation of natural resources, women's health, rural irrigation, youth development etc. The NSS team also works on state/central government schemes. Institution has also adopted a few villages where the NSS team is instrumental.

Different Clubs are:

1. Aero Design
2. All-Terrain vehicles (BAJA)
3. Aviot-o-Virtue
4. Chem-e-car
5. Codigo-Madrid
6. Formula Car (SUPRA)
7. Go Cart
8. Hybrid Car (Effi-Cycle)
9. Motor Sports Teams

Aviot-o-Virtue, the AISSMS COE Drone and Robotics Club is a platform provided to students of the Institution to enhance their technical and non-technical skills in the field of robotics and drone. Members of the club get exposure towards new technology and upcoming projects.
The club was established on 29th July,2017. The idea of foundation was lead by BE 2017 batch under the guidance of faculties of E&TC department and with the support of Hon. Principal of the institution. Students are the core members of the team who lead the foundation.

Objectives of the club-

- To enhance technical skills of the students.
- To enhance entrepreneurial kills of the students.
- To represent institution at various national and international drone and robotics event.

Club organizes Drone and robotics competition as well as workshops for the students of various engineering and non-engineering institutes during the AISSMS COE's annual technical symposium named 'Engineering Today'. Moreover, members conduct workshops in other engineering and non-engineering institutes which helps in enhancement of presentation and communication skills of the members.

About all clubs Information is Provided on Website:
https://aissmscoe.com/students-club/aero-design/

Figure 9.7.1: Different Clubs Website Screenshot

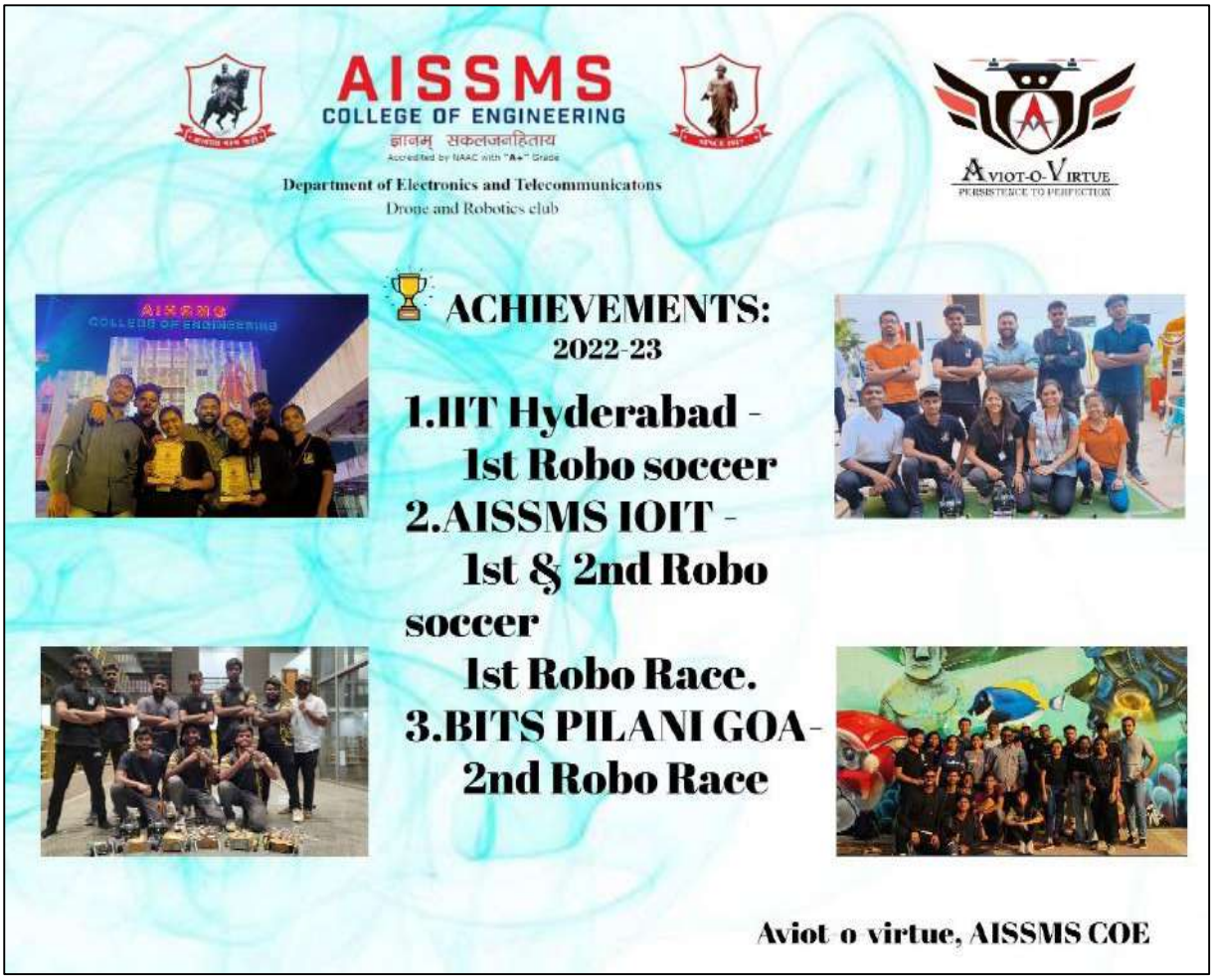

Figure:9.7.2: Aviot-o-virtue club Achievement

Figure 9.7.3: EDU-CLOUD Program Certificate

Table 9.7.10: Aero-Design Club Achievement

	
Aero design challenge 2021 Certificate of Achievement	Second rank in Aero Design competition

Table 9.7.11: Activities conducted under NSS

Sr. No.	Activity	Chief Guest
01	Global Level Poster Making Competition	Dr. Savita Kulkarni
02	World Environment Day(Webinar)	Dr. Shivaji Pancharne
03	Tree Plantation	Hon.Chandrakant Jiwade
04	QUIZ- Ek Bharat Shreshta Bharat	Dr. Arun Bhamre
05	Spitting Kills Campaign	Hon. Shivaji Pacharne
06	Kargil Vijay Divas (Webinar)	Maj.Gen. Shashikant Pitre
07	Raksha Bandhan	Hon. Bhaskar Kumbharde
08	Swayamsiddha Hackathon 2020	Dr. Virendra Kumar Vijay
09	Independence Day	Hon. Gopal Malvi
10	National Education Policy 2020 (Webinar)	Hon. Prabhakar Desai
11	Mahatma Gandhi Jayanti	Dr. Kumar Saptarshi
12	World Food Day(Webinar)	Hon. Vineet Jadhav
13	QUIZ- World Food Day	Hon. Santosh Chavan
14	Food Distribution Drive	Hon. Sheshraj Patil
15	Be Your Own Lakshmi (Webinar)	Hon. Shikha Mittal.
16	Be Vocal Buy Local	Hon. Jayashri Kumbharde
17	QUIZ -Constitution Day	Hon. Sujata Bhamre
18	World AIDS Day (Awareness Drive)	Hon. Vrushali Gadhave
19	We the Change- Aamhi Bharatache Lok (Webinar)	Dr. Sunjay Awte
20	QUIZ- Armed Force Flag Day	Hon. Uma Patil
21	Human Rights Day	Hon. Dilip Ghorpade
22	Tree Plantation (Kalyan)	Sarpanch- Shri Rajesh Dimble
23	Cleanliness Drive (Kalyan)	Sarpanch- Shri Rajesh Dimble
24	Survey regarding Science and Technology Lab (Kalyan)	Sarpanch- Shri Rajesh Dimble
25	Site Visit for Water Reservoir (Kalyan)	Sarpanch- Shri Rajesh Dimble
26	Awareness- Tobbaco Deaddiction	Sarpanch- Shri Rajesh Dimble
27	Pledge- Majhi Vasundhara	Sarpanch- Shri Rajesh Dimble
28	Health Check-up Camp- Kalyan	Sarpanch- Shri Rajesh Dimble
29	Women Literacy- Kalyan	Sarpanch- Shri Rajesh Dimble

30	Mask Distribution- Kalyan	Sarpanch- Shri Rajesh Dimble
31	Resperiometer Distribution- Kalyan	Sarpanch- Shri Rajesh Dimble
32	Tree Plantation- Kalyan	Sarpanch- Shri Rajesh Dimble
33	Cleanliness Drive- Kalyan	Sarpanch- Shri Rajesh Dimble
34	Corona Awareness- Kalyan	Sarpanch- Shri Rajesh Dimble
35	Survey of Water Reservoir- Kalyan	Sarpanch- Shri Rajesh Dimble
36	Survey for Town planning- Kalyan	Sarpanch- Shri Rajesh Dimble
37	Best out of Waste Competition- Paste reduction.	Hon. Manisha Patil
38	Debate - The changing mind-set if youth.	Hon. Mangala Malvi
39	Webinar- Role of youth in Adult Education.	Hon. Sunita Katam
40	Student Literacy- Kalyan	Sarpanch- Shri Rajesh Dimble
41	Tobacco Deaddiction Awareness- Kalyan	Sarpanch- Shri Rajesh Dimble
42	Road Safety Program	Hon. Dr. D. S. Bormane
43	Polio Vaccination Drive	Hon.Usha (Mai) Dhore, Mayor (PCMC)
45	SPPU Foundaation Day	Hon.Padmasghri Ravindra Kolhe
46	Student Activity	Hon. Sunil Dimble
47	Explanation of Science Experiments	Hon. Sunil Dimble
48	Health Check-up Camp	Principal, Dr.D.S. Bormane
49	Aazadi ka amrut mahotsav	Hon. Chandrakant Patil, Hon. Mdan Mohan Goyal.
50	SPPU Blood Donation Camp	Hon. Nana Patekar
51	Symbol of Knowledge	Padmashree Dr. Milind Kamble
52	Tree Plantaion Drive	Hon. Swati Jiwade
53	Natural wellness & freedom from poison	Hon. Siddharth Apte
54	Tobbaco: A threat to progress	Hon. Sanjay Seth
55	Tobbaco Addiction: Poetry Compitition	Dr. D. S. Bormane
56	Shivswarajya Din	Hon. Dr. Ganesh Raut
57	Symbol of Knowledge - 02	Hon. Dr. Rajendra Singh

Table 9.7.12: List of activities AY 2022-23

Sr.No.	Activity	Date	Guest	No Of Participant	No.Of Hours
1	Budhha Pournima	16/05/2022	Dr. D S Bormane	70	1
2	Swantryacha Amrit Mahostav	28/05/2022	Shri Anurag Thakur	700	2
3	Voters Workshop SPPU	05/06/2022	Ajit Pawar	2000	3
4	Environmental conservation	05/06/2022	Rajesh Dimble	20	5
5	POSCO Awareness	12/06/2022	Rajesh Dimble	16	3
6	Dindi program	15/06/2022	Dr. Prabhakar Desai	600	2
7	International Yoga Day	21/06/2022	Kailas Patel	600	3
8	Kargil Vijay Divas	26/07/2022	Dr. N. N. Shejwal	110	2
9	Save Tiger Prog	29/07/2022	Dr. N N Shejwal	70	1
10	Sawand Karyshala	27/07/2022	Jayant Kishor	700	2
11	EK divas Balirajyasathi	02/08/2022	Rajesh Dimble	10	4
12	Har Ghar tiranga SPPU	09/08/2022	Dr. Karbhari Kale	2000	2
13	Har Ghar Tiranga	14/08/2022	Nitin Ghorpade	140	2
14	Rejuvenate With Yoga	05/09/2022	Mrs.Archana Patil	109	3
15	Blood Donation Camp	07/09/2022	Dr. Murlidhar Tambe	560	8
16	Transgender Participation In Democracy	14/09/2022 15/09/2022	Mr.Shrikant Deshpande	1000	16
17	Yuvasandan	16/09/2022	Mr. Pratap Mankar	130	3
18	World Spine Bone Day (Walk A Thon)	16/10/2022	Dr. S.B. Patil	600	4
19	Sci-Tech Village Thone	19/10/2022	Dr. Sanjaykumar Pingat	200	4

20	Science Exhibition	20/10/2022	Dr. Vivek Sawant	1200	8
21	Aapulkichi Diwali	21/10/2022	Dr. D. S. Bormane	120	2
22	Rastriya Ekta Diwas	31/10/2022	Dr. D.S. Bormane	350	2
23	Multimedia Digital Exhibit Voters Registration (Election Commission Program)	09/11/2022	Rajiv Kumar CE	650	2
24	Voters Awareness Rally	01/12/2022	Rajesh Dimble	230	2
25	Adult Literacy Program Inauguration Rt. Bishwajeet Ghosh	08/12/2022		170	2
26	G20 Sumittee	14/01/2023	Dr. Karbhari Kale	300	3
27	Republic Day	26/01/ 2023	Chh. Malojiraje	2500	3
28	Swachh Gram In Kalyan	22/02/2023	Rajesh Dimble	1100	4
29	Food Distribution Program	03/03 /20	Dr. D. S. Bormane	87	2
30	Women Entrepreneurship Workshop	04/03/2023	Mrs. Arti Dolas	125	2
31	International Women Day	08 /03/20	Dr. Amit Gogawale	100	2

Table 9.7.13: List of activities AY 2021-22

Sr. No.	Event Name	Chief Guest Name	Date	Location	Participants
List of Activities on Campus					
1.	Shivswarajya Din	Hon. Dr. Ganesh Raut	06 June 2021	Microsoft	274
2.	Symbol of Knowledge	Hon. Dr. Rajendra Singh	11 June 2021	Microsoft	218
3.	Yoga Well Being	Hon. Dr. D. S. Bormane	21 June 2021	Microsoft	178
4.	Disha Pragtichi	Mr. Rushikesh Sonawane	18 September 2021	Microsoft	197
5.	Wings of NSS	Dr. Savita Kulkarni Dr. Shivaji Pacharne	23 September 2021	Microsoft	355
6.	Tree Plantation	Mr. Rajesh Dimble	24 September 2021	Kalyan	8
7.	Eye Check up Camp	Dr. Sonali Jadhav	24 September 2021	Kalyan	10

8.	Covid Awareness Drive	Mr. Rajesh Dimble	24 September 2021	Kalyan	5
9.	Computer Literacy	Mr. Rajesh Dimble	24 September 2021	Kalyan	4
10.	Cleanliness Drive	Mr. Rajesh Dimble	24 September 2021	Kalyan	15
11.	Save environment rally	Mr. Rajesh Dimble	24 September 2021	Kalyan	19
12.	Mazha Gaon Mazhi Jababdari Rally	Mr. Rajesh Dimble	24 September 2021	Kalyan	19
13.	Woman empowerment	Mr. Rajesh Dimble	24 September 2021	Kalyan	12
14.	Plastic Free Village Drive	Mr. Rajesh Dimble	24 September 2021	Kalyan	12
15.	IPR & Patent	Dr. Ajay Thakur	25 September 2021	Microsoft	587
16.	Symbol of Knowledge	Dr. Vishwambhar Chaudhary	1 October 2021	AISSMS COE	732
17.	Blood Donation Drive	Mr. Hemant Joshi	1 October 2021	AISSMS COE	67
18.	Green Engineering	Mr. Yogesh Kondaskar	1 October 2021	AISSMS COE	123
19.	Cleanliness Drive	Mr. Parag Mate	2 October 2021	Karve Nagar	25
20.	Mazi Vasundhara Campaign	Dr. N. N. Shejwal	10 October 2021	Online	120
21.	Health Check up camp	Ms. Gunfa Ingale	13 October 2021	Tulapur	134
22.	Eye check up Camp	Ms. Gunfa Ingale	13 October 2021	Tulapur	112
23.	Tree Plantation	Ms. Gunfa Ingale	13 October 2021	Tulapur	5
24.	Cleanliness Drive	Ms. Gunfa Ingale	13 October 2021	Tulapur	7
25.	Energy Conservation Survey	Ms. Gunfa Ingale	13 October 2021	Tulapur	3
26.	Heritage Conservation	Ms. Gunfa Ingale	13 October 2021	Tulapur	35
27.	Woman Hygiene Importance	Ms. Gunfa Ingale	13 October 2021	Tulapur	56
28.	Covid Awareness Drive	Ms. Gunfa Ingale	13 October 2021	Tulapur	7
29.	Poshan Pandharwada	Dr. D. S. Bormane	21 October 2021	Pune	34
30.	Mega Vaccination Drive	Dr. D. S. Bormane	27 October 2021	AISSMS COE	117
31.	National Unity Day	Mr. Shivaji Pawar	30 October 2021	AISSMS COE	130
32.	Diwali Faral Packet Distribution	Mr. Shailesh Uchgaonkar	5 November 2021	Pune	15
33.	Gender Sensitization Survey	Maharshri Baya Karve Abhyas	18 November	Pune	20

		Kendra	2021		
34.	Fit India Run	Mr. D.P. Gaikwad	22 November 2021	Pune	167
35.	Self Defense Training	Mr. Bacchav	23 November 2021	Pune	154
36.	Social Media Awareness WE App	Mr. Abhijit Deshmukh	24 November 2021	Pune	56
37.	National Constitution Day	Dr. D.S. Bormane	26 November 2021	AISSMS COE	53
38.	National AIDS Day	Mr. Himashu Gadge	2 December 2021	AISSMS COE	127
39.	AIDS Awareness Rally	Dr. D.S. Bormane	2 December 2021	AISSMS COE	25
40.	Symbol of Knowledge	Mr. Sajayji Deshmukh	8 December 2021	AISSMS COE	110
41.	YIN Session	Ms. Anuja Patil	10 December 2021	AISSMS COE	45
42.	Tribute to Gen. Bipin Rawat	Dr. N.N. Shejwal	10 December 2021	AISSMS COE	63
43.	Nisarg Sanvad	Mr. Rajeshkumar Saraf	15 December 2021	AISSMS COE	54
44.	Visit to Ammunition Exhibition	Mr. Satish Patil	19 December 2021	AISSMS COE	34
45.	Vivekshakti & Vivekbuddhi	Mr. Milind Swami Mr. Nitin Talhar	12 - 21 January 2022	Online	176
46.	Pantapradhan Awas Yojana	Mr. U. N. Awari	12 January 2022	Kalyan	10
47.	Village development Survey	Dr. Awari	12 January 2022	Kalyan	10
48.	Village development Survey	Mr. Swapnil Pawar	23 January 2022	Singapoor	13
49.	National Girl Child Day	Dr. N. N. Shejwal	24 January 2022	Online	150
50.	Campus Ambassador Training Session 1	Mr. Abhijit Deshmukh	25 January 2022	Online	167
51.	Campus Ambassador Training Session 2	Mr. Abhijit Deshmukh	26 January 2022	Online	62
52.	Symbol of Knowledge	Mr. Avinash Dharmadhikari	27 January 2022	Microsoft	459
53.	National Voters Day	Dr. D.S. Bormane	27 January 2022	Online	150
54.	Heritage Conservation 1	Dr. D.S. Bormane	29 January 2022	Parvati Hills	9
55.	Heritage Conservation 2	Dr. D.S. Bormane	1 February 2022	Hanuman Tekdi	17
56.	Heritage Conservation 3	Dr. D.S. Bormane	2 February 2022	Baramati	10
57.	Heritage Conservation	Dr. D.S. Bormane	6 February 2022	Pune City	867

	Megastroke				
58.	My River My Valentine	Hon. Rajesh Pande	13 February 2022	Pune City	1367
59.	Shivjayanti	Hon. Mohan Shete	18 February 2022	AISSMS COE	134
60.	Plogging	Dr. D. S. Bormane	2 April 2022	AISSMS COE	20
61.	Cleanliness Drive	Mr. Rajesh Dimbale	3 April 2022	Sinhgad Fort	15
62.	100 Years of Shahu Jayanti	Hon. Suresh Shinde	6 May 2022	AISSMS COE	240
63.	75 Years of Independnce	Hon. Anurag Thakur	28 May 2022	AISSMS COE	21
Outside College Activities					
1.	SPPU Covid Vaccination Drive Training	Hon. Prabhakar Desai Sir	1 September 2021	SPPU	7
2.	Pre Republic Day Parade selection	Dr. Savita Kulkarni	17 September 2021	Modern college Pune	9
3.	75 years Jyot	Mr. Prabhakar Desai	14 October 2021	SPPU	83
4.	Gender Sensitization Training	Maharshri Baya Karve Abhyas Kendra	25 November 2021	SPPU	300
5.	Youth Leadership Training	Mr. Umrani Sir	21 – 22 December 2021	SPPU	89
6.	SPPU Foundation Day	Hon. Koshayayi Sir	10 February 2022	SPPU	500
7	My Valentine My Valentine Awareness	Ms. Amrapali Chavan	12 February 2022	MM College of Commerce, Pune	73
8	Savitribai Phule Statue Inauguration	Hon. Bhagat singh Koshayayi	14 February 2022	SPPU	5
9	Gender Sensitization Training	Maharshi Baya Karve Sanstha,Pune	24- 25 March 2022	SPPU	78
10	Changing Farming System	Rajan Gavas	28 March	SPPU	62
11	Marathi Social Media Sanmelan	Hon. Uday Samant	29 April 2022	SPPU	8
Workshops					
1.	Break The Bias Seminar	Ms. Gaikwad	8 March 2022	AISSMS COE	145
2.	Heritage Conservation – Varsa Darshan	Hon. Mohan Shete	22 March 2022	Pune	110
3.	Value Education Workshop	Hon. Mitesh Ghatte Mrs. Asha Raut	29 March 2022	AISSMS COE	110

National Level Events					
1.	NSS PRD university level Camp	Mr. Uday Samant	14 October 2021	SPPU	1
2.	National Youth Festival	Hon. Naremndra Modi	12 Janaury 2022	Online	1
Special Residential Camp					
Sr. No	**Activities**	**Objective**	**Date**		
1.	Tree plantation	To plant more and more tress	28 February to 06 March 2022		
2.	Cleaness drive	To clean the dirt and keep the nation clean	28 February to 06 March 2022		

Table 9.7.14: List of activities AY 2020-21

Sr No	Activity	Chief Guest	Date	No. of Participant	No. of Hours
01	World Environment Day (Webinar)	Dr.Shivaji Pancharne	05/06/2020	108	02 hrs
02	Tree Plantation	Hon. Chandrakant Jiwade	05/06/2020		
03	QUIZ- Ek Bharat Shreshta Bharat	Hon. Arun Bhamare	09/06/2020	420	
04	Spitting Kills Campaign	Hon. Kishanrao Tondchore	25/06/2020		
05	Kargil Vijay Divas (Webinar)	Maj.Gen. Shashikant Pitre	26/07/2020	105	02.5 hrs
06	Raksha Bandhan	Hon. Bhaskar Kumbharde	03/08/2020	50	
07	Independence Day	Hon. Gopal Malvi	15/08/2020	15	
08	National Education Policy 2020 (Webinar)	Hon. Prabhakar Desai	23/09/2020	123	02.5 hrs
09	Mahatma Gandhi Jayanti	Dr. Kumar Saptarshi	02/10/2020	250	02.5 hrs

10	World Food Day (Webinar)	Hon. Vineet Jadhav	22/10/2020	134	02 hrs
11	QUIZ- World Food Day	Hon. Santosh Chavan	22/10/2020	238	-
12	Food Distribution Drive	Hon. Sheshraj Patil	22/10/2020		1 week
13	Be Your Own Lakshmi (Webinar)	Hon. Shikha Mittal.	07/11/2020	110	02 hrs
14	Be Vocal Buy Local	Hon. Jayashri Kumbharde	09/11/2020	50	-
15	QUIZ -Constitution Day	Hon. Sujata Bhamare	26/11/2020	250	-
16	Wold AIDS Day (Awareness Drive)	Hon. Vrushali Gadhave	01/12/2020	-	-
17	We the Change- Aamhi Bharatache Lok (Webinar)	Dr. Sunjay Awte	06/12/2020	150	02.5 hrs
18	QUIZ- Armed Force Flag Day	Hon. Uma Patil	07/12/2020	200	-
19	Human Rights Day	Hon. Dilip Ghorpade	10/12/2020	20	-
20	Tree Plantation (Kalyan)	Sarpanch- Shri Rajesh Dimble	25/12/2020	06	01 hr
21	Cleanliness Drive (Kalyan)	Sarpanch- Shri Rajesh Dimble	25/12/2020	06	30 mins
22	Survey regarding Science and Technology Lab (Kalyan)	Sa Hon. Sunil Dimble	25/12/2020	06	30 mins
23	Krishi PragatiKaran Ani Badal(Webinar)	Dr. Manohar Khake	26/12/2020	122	02.5 hrs
24	Awareness- Tobbaco Deaddiction	Hon. Santosh Gadhave	07/01/2021	10	30 mins
25	Pledge- Majhi Vasundhara	Hon. Suresh Bhosale	12/01/2021	157	4 days
26	Health Check-up Camp- Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	142	4 hrs

27	Women Literacy Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	43	2 hrs
28	Mask Distribution Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	150	4 hrs
29	Resperiometer Distribution- Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	150	30 mins
30	Tree Plantation- Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	15	1 hr
31	Cleanliness Drive Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	15	1 hr
32	Corona Awareness Kalyan	Sarpanch- Shri Rajesh Dimble	15/01/2021	100	30 min
33	Best out of Waste Competition- Paste reduction.	Hon. Pooja Bhosale	15/01/2021	10	4 days
34	Welcoming Ministry of Youth Affairs and Sports	Hon. Shri Kiren Rijiju	17/01/2021	12	2 hrs
35	Debate- The changing mind-set if youth.	Hon. Mangala Mavli	18/01/2021	34	1.5 hrs
36	Webinar- Role of youth in Adult Education.	Hon. Sunita Katam	21/01/2021	102	2 hrs
37	Student Literacy Kalyan	Sarpanch- Shri Rajesh Dimble	21/01/2021	50	1 hr
38	Tobacco Deaddiction Awareness- Kalyan	Sarpanch- Shri Rajesh Dimble	21/01/2021	50	30 mins
39	Road Safety Program	Hon. Ghavte	26/01/2021	17	2 hrs
40	Pulse Polio Campaign	Hon. Chief Guest Usha (Mai) Dhore, Mayor Pimpri Chinchwad,	01/02/2021 & 02/02/2021	13	2 days
41	SPPU Foundation Day	Hon. Padmashree Ravindra Kolhe		10	2 hrs
42	Student Activity	Hon. Sunil Dimble	12/02/2021	06	1 hr

43	ShivJayanti	Hon. Malojiraje Chhatrapati	19/02/2021	02	1 hr
44	Health Checkup Camp	Hon. Dr. D.S. Bormane	08/03/2021	12	3 hrs
45	Azadi Ka Amrut Mohatsav	Hon. Chandrkant Patil and Hon. Madand Mohan Goel	12/03/2021	16	2 hrs
46	Blood Donation Camp SPPU	Hon. Nana Patekar	12/04/2021	07	3 hrs
47	Symbol of Knowledge 01	Hon. Padmashree Dr. Milind Kamble	14/04/2021	439	1 hr
48	Tree Plantation Drive	Hon. Swati Jiwade	26/04/2021	05	1 week
49	Webinar- Natural Wellness and Freedom from Poison	Hon. Mr. Siddharth Apte	23/05/2021	186	02 hrs
50	Webinar- Tobacco: A threat to program.	Hon. Mr. Sanjay Seth	31/05/2021	150	01 hr
51	Poetry competition Tobacco Addiction.	Hon. Mr Arun Bhamare	31/05/2021	06	02 days

Table 9.7.15: Glimpses of NSS activities

Cleaning Drive At Dindi

Kargil Vijay Diwas

Soak Pit at Tulapur

Rakshabandhan

Water conservation and Biodiversity

Abhivyakti Programme

Voter Awareness Drive

Swaccha Bharat Abhiyan At Kalyan

Tree Plantation at SPPU

Cyclothon

 Saksham Yuva Samartha Bharat	 Water Management and Conservation
 AISSMS COE Cricket Team 2022-23	 Received Gold medal to Pranav Gurav in 100 m run at the 82nd inter University Athletics

C. Annual students' activities: **(4)**

Shivanjali (Annual Cultural Event) and Engineering Today (Annual Technical Symposium)

We seek to establish an environment and culture which will encourage students to participate in extracurricular activities comprising various competitions, events and programs which will bring out the best in the students which will also help them learn multiple tasking, through seeking a balance between co-curricular and extracurricular activities. AISSM Society beholds a strong heritage and cultural roots through its establishment and through years has proven its excellence in not just academics but sports and other activities with large number of students participating every year and receiving critical acclaim and various awards. Events like "Purushottam Karandak", "Vinodottam Karandak", "Firodiya Karandak", "Vedant", "Dajikaka Gadgil Karandak" and other inter college Competitions throughout the year.

Also bringing out the best from the students in the college level annual cultural events like "Ashwamedh" and "Shivanjali".

Shivanjali: Annual social gathering for students to showcase variety of talents in students. It includes dance forms, drama, skits, our very own "dhol-tasha" Pathak standup comedy, musical performances, orchestra, band, fashion show and other individual student talent showcase.

Engineering Today: We organize Engineering Today every year in first Semester of every academic year.

Below is the list of events conducted in Engineering Today Event.

Table 9.7.16: List of Events

Sr. N0.	Date	Title of Activity	Topic	No. of Beneficiaries/ Participants
2022-23				
01	18/10/2022 To 19/10/2022	Drone	Air- O-Task (EX1)	40
02	18/10/2022 To 19/10/2022	Robotics	Robo Soccer (EX2A)	108
03	18/10/2022 To 19/10/2022	Robotics	Robo Wresting (EX 2B)	96
04	18/10/2022 To 19/10/2022	Quiz	Comic-Con (EX3)	120
05	19/10/2022	Science Exhibition	Science Exhibition	45
2021-22				
01	29/09/2021 To 30/09/2021	Digimania Online Quiz Competition EC-1	Digimania	350
02	29/09/2021 To 30/09/2021	Poster Competition EC-2	IdeaThon	74
03	29/09/2021 To 30/09/2021	Coding Competition EC-3	Code Chronicles	
04	01/10/2021	Science Exhibition	Science Exhibition (SCITECH IDEATHON)	

Students from various colleges from Maharashtra and out of Maharashtra had participated in these events.

Table 9.7.17: Glimpses of Shivanjali

'शिवांजली कलेला वाव देणारे व्यासपीठ'

पुणे : शिवांजली हे विद्यार्थ्यांच्या सांस्कृतिक कलागुणांना वाव देणारे व्यासपीठ असून, महाविद्यालयाचा हा मंत्रमुग्ध परिसर पाहून आपण भारावून गेल्याचे मनोगत पहिल्या दिवशी प्रमुख अतिथी असलेल्या प्रसिद्ध मराठी अभिनेत्री हृता दुर्गुळे यांनी व्यक्त केले. ढोल-ताशांचा गजर, कर्णमधुर संगीत, नृत्याच्या तालावर थिरकणारी तरुणाई, सुंदर नेपथ्य, अप्रतिम प्रकाशयंत्रणा आणि शिवगर्जनेने दुमदुमलेले आसमंत अशा अतिशय उत्साही वातावरणात पुण्यातील एआयएसएसएमएस अभियांत्रिकी महाविद्यालयात 'शिवांजली-२०२३' हा वार्षिक सांस्कृतिक सोहळा दोन दिवस पार पडला. प्राचार्य डॉ. डी. एस. बोरमणे यांनी महाविद्यालयातील विद्यार्थी आणि प्राध्यापक यांच्या उल्लेखनीय कार्याचा आढावा घेतला. या कार्यक्रमास संस्थेचे खजिनदार अजय पाटील, संस्थेचे व्यवस्थापन समिती सदस्य निखिल खणसे, संस्थेचे सदस्य धवल जितकर, संस्थेचे सदस्य ऋतुराज टेकवडे उपस्थित होते. या प्रसंगी अभिनेत्री हृता दुर्गुळे यांच्या उपस्थितीत, विविध राष्ट्रीय आणि राज्यस्तरीय स्पर्धांमध्ये यश मिळवलेल्या विद्यार्थ्यांचा सन्मान पुढीलप्रमाणे करण्यात आला.

पुण्य नगरी

अभियांत्रिकी महाविद्यालयात पर्ल इन द ओशन कार्यक्रम उत्साहात

पुणे : प्रतिनिधी

ऑल इंडिया श्री शिवाजी मेमोरियल सोसायटीच्या अभियांत्रिकी महाविद्यालयात 'पर्ल इन द ओशन' याविषया अंतर्गत पहिल्या टीइडीएक्सचे आयोजन केले होते. यावेळी एआयएसएसएम संस्थेचे मानद सचिव मालोजीराजे छत्रपती, मानद सहसचिव सुरेश शिंदे, मानद खजिनदार अजय पाटील, मॅनेजिंग कमिटीचे चेअरमन ॲड. भगवानराव साळुंके, मेंबर धवल जितकर, यशस्विनीराजे छत्रपती यांच्या उपस्थितीत पार पडला. कार्यक्रमाला प्राचार्य डॉ. डी. एस. बोरमणे, संस्थेचे प्रशासकीय अधिकारी अभिजित भोसले, सर्व विभागप्रमुख, कार्यक्रमाचे समन्वयक शिखा पंचोली, प्राध्यापक आणि विद्यार्थी आणि संपूर्ण टीइडीएक्स विद्यार्थी टीमचा उत्साही प्रतिसाद लाभला.

प्रत्येकाचे स्वतःचे असे व्यक्तिमत्त्व असते ते स्वतः विकसित केले पाहिजे, असे मत प्रशासकीय अधिकारी आयुष प्रसाद यांनी मांडले. तर सकारात्मक भूमिका घेऊन फिनिक्स पक्षाप्रमाणे उंच भरारी घेता येते, असे सांगत जसकिरत कौर यांनी विद्यार्थ्यांमधील ऊर्जेला साद घातली.

जितेंदर गिरधर म्हणाले, प्रत्येक प्रश्नाचे उत्तर शोधता शोधता तुम्ही ज्ञानाच्या अथांग सागरातील चमकदार मोती बनाल असे सांगून विद्यार्थ्यांमधील आत्मविश्वास जागा केला. तर कवि आयुश शर्मा यांनी कला व अभियांत्रिकी या अविष्काराच्या नाण्याच्या दोन बाजू असल्याचे सांगितले. कार्यक्रमाचे सूत्रसंचालन रुचा भोसलेने हिने केले. तर कार्यक्रमाचे समन्वयक शिखा पंचोली यांनी आभार मानले.

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पुढारी

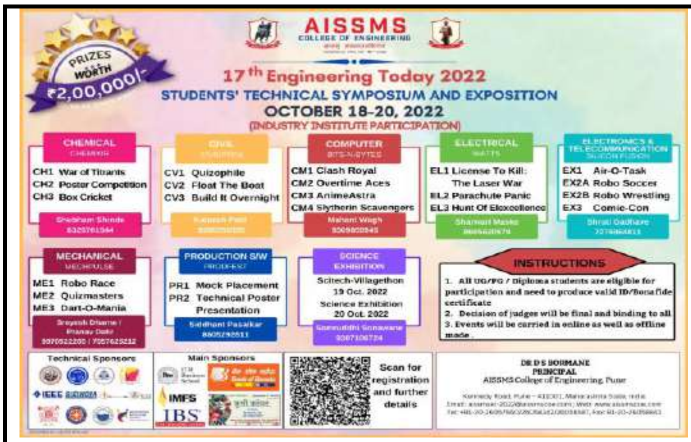
ग्रामीण भागातील लोकांसाठी इनोव्हेशन करा : विवेक सावंत

एआयएसएसएमएसच्या इंजिनिअरिंग टुडेचा समारोप

सायटेक प्रदर्शनात आंतरराष्ट्रीय विद्यार्थ्यांचा सहभाग

My Pune Edition
Oct 22, 2022 Page No. 4
newspaper.pudhari.co.in

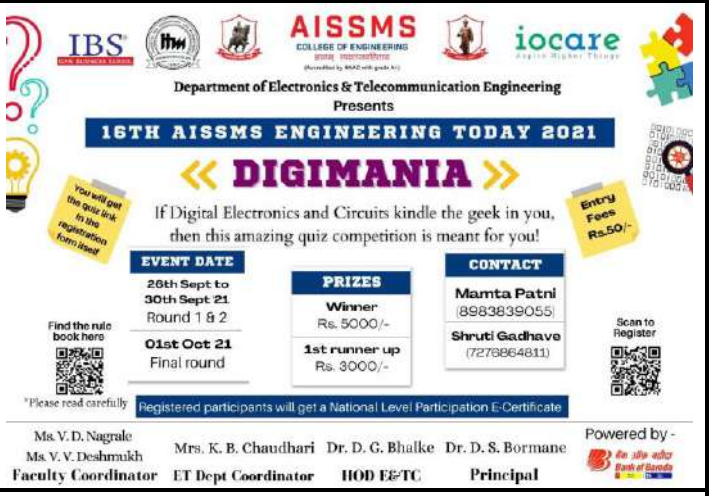
Table 9.7.18: Glimpses of Engineering Today

	
Engineering Today activities of 2022	Robo Soccer Event
	
Two teams competing with each other	Winners of the drone event air-0- tasks

Engineering Today activities of 2021

ET activity_Silicon Fusion 2021

ET Activities organized by E and TC Dept. in 2021



ET activity_Digomania 2021

AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Approved by AICTE, New Delhi, Recognized by Government 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 | NBA - 6 UG Programmes

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CRITERION X

Organization, Governance and Transparency

CRITERION X	GOVERNANCE, INSTITUTIONAL SUPPORT & FINANCIAL RESOURCES Organization, Governance and Transparency	120

10.1	Organization, Governance, and Transparency	40

10.1.1 State the Vision and Mission of the Institute

Vision of Institute:

Service to society through quality education

Mission of the Institute:

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

10.1.2 Governing Body, Administrative Setup, Functions of Various Bodies, Service Rules, Procedures, Recruitment and Promotional Policies (10)

AISSMS College of Engineering has a well-established organizational structure to execute the smooth functioning of administrative and academic processes. Various bodies are formulated which constitute the organization chart. The governing body is the highest decision-making body constituting members of the management, Principal, and nominated faculty members. College Development Committee (formerly Local Management Committee) includes representatives of members of society, the Principal, three members elected from the teaching faculty, and one member of non-teaching staff. The organization structure is as follows:

Every department has a Department Advisory Board (formerly Department Advisory Committee) to direct policies to excel students in academics and work environments. It comprises one member each from industry, research establishment, and academic institute of repute, alumni, students, parents, and management. Principal, Heads of the Departments, sectional heads, and co-coordinators of various committees have adequate participation in making decisions in academic and administrative processes under their supervision.

Members of the Governing body, College development committee, Internal quality assurance cell, and institute-level committees are shown in the tables below:

Governing Body

Table 10.1.1 Constitution of Governing Body

Governing Body of the Institute	
Chairman	To be nominated by the society
Member	Two to five members (Industrialist / Technologist / Educationalist) to be nominated by the society
Member	Nominee of the affiliating university
Member	Nominee of AICTE (Ex–officio)
Member	Nominee of State Government
Member	Industrialist / Technologist / Educationalist from the region to be nominated by the State Government.
Member Secretary	Principal of the college.
Member	Two faculty members are nominated from the regular staff, out of which one is a Professor and the other is an Assistant Professor.

Table 10.1.2 List of Governing Body Members for the year 2020-21

Sr. No.	Name	Designation
1	Shri Suresh Pratap Shinde	Chairman (Society)
2	Shri Malojiraje Chhatrapati	Honorary Secretary (Society)
3	Shri Sunil Hambirrao Mohite	Member (Society)
4	Shri Rushiraj Balasaheb Tekawade	Member (Society)
5	Shri Rahul Nanasaheb Yadav	Member (Society)
6	Dr. Amit Dutta	Member (AICTE, Regional Officer) Ex-Officio
7	Dr. (Smt) Sharmila Chaudhari	Member (Savitribai Phule Pune University Nominee)
8	Dr. D R Nandanwar	Member (Govt. of Maharashtra) Industrialist/Technologist/ Educationalist
9	Shri P N Jumle	Member (Ex-Officio)

10	Dr (Mrs) Ashwini Avinash Godbole	Member (Teaching)
11	Shri Ganesh Chandrakant Chikute	Member (Teaching)
12	Dr Dattatraya Shankar Bormane	Member Secretary (Principal)

Table 10.1.3 Number of meetings of the Governing Body

S.N.	Academic Year	Number of Meetings
01	2022-23	01
02	2021-22	01
03	2020-21	01

COLLEGE DEVELOPMENT COMMITTEE

Table 10.1.4 Constitution of College Development Committee

College Development Committee of Institute	
Chairman	Chairperson of the management or his nominee ex-officio chairperson
Member	Secretary of the management or his nominee
Member	One head of department to be nominated by the principal
Member	Three teachers in the college elected by full-time amongst themselves out of whom one shall be women
Member	One non-teaching employee, elected by regular non-teaching staff
Member	Four local members nominated by management in consultation with the Principal from the field of education industry, research, and social service of whom at least one shall be an alumnus
Member	Coordinator, IQAC of the college
Member	President and secretary of the college student council
Member Secretary	Principal of the college

Table 10.1.5 List of College Development Committee members (2020-21)

Sr No.	Name	Designation
1	Shri Suresh Pratap Shinde	Chairman (Society)
2	Shri Malojiraje Chhatrapati	Honorary Secretary (Society)
3	Dr (Mrs) Ashwini Avinash Godbole	Member (Head of Department- Teaching)
4	Shri Diwakar Haribhau Joshi	Member (Teaching)
5	Shri Laxman Shivaji Godse	Member (Teaching)
6	Ms Vismita Devidas Nagrale	Member (Woman - Teaching)
7	Shri Santosh Prabhakar Pimpale	Member (Non-Teaching)
8	Shri Rahul Nanasaheb Yadav	Member (Society)
9	Shri Nikhil Ashok Khanse	Member (Society)
10	Shri Rishiraj Balasaheb Tekawade	Member (Society)
11	Shri Sunil Hambirrao Mohite	Member (Society)
12	Dr Chandrakishor Shrirang Choudhari	Member (Coordinator IQAC: Teaching)
13	Ms Anjali Chaudhari	Member (General Secretary of the College Students Council)
14	Dr Dattatraya Shankar Bormane	Member Secretary (Principal)

Table 10.1.6 Number of meetings of the College Development Committee

S.N.	Academic Year	Number of Meetings
01	2022-23	01
02	2021-22	01
03	2020-21	01

Table 10.1.7 Members of Internal Quality Assurance Cell (2020-21)

Sr No	Category	Post	Name & Designation of Committee members
1	Chairperson	Head of the Institution	Dr Dattatraya Shankar Bormane, Principal
2	Coordinator	Assistant Professor in Mechanical Engineering	Dr Chandrakishor Shrirang Choudhari, Associate Professor in Mechanical Engineering
3	Administrative officers	Head of Department	Dr Sandeep Haribhau Wankhade, Associate Professor in Production Engineering
		Head of Department	Dr (Mrs) Ashwini Avinash Godbole, Professor in Electrical Engineering
		Co-ordinator, NAAC Steering Committee	Dr Daulappa Guranna Bhalke, Professor in E&TC Engineering
		Administrative Officer	Mr Abhijit Bhawanrao Bhonsle, Administrative Officer
		Registrar	Mr Santosh Prabhakar Pimpale Registrar
4	Faculty	Civil Engineering	Dr (Mrs) Vidya Nitin Patil, Associate Professor in Civil Engineering
		Computer Engineering	Dr (Mrs) Shabnam Farook Sayyad, Assistant Professor in Computer Engineering
		Mechanical Engineering	Dr Avinash Vishvanath Waghmare, Associate Professor in Mechanical Engineering
		Chemistry	Dr Deepak Vitthal Nighot, Associate Professor in Chemistry
5	Management member	Joint Secretary, AISSMS	Mr Suresh Pratap Shinde Honorary Joint Secretary, AISSM Society, Pune - 5
6	Industry	Ex. MD, Kirloskar Oil Engines Limited, Pune	Mr R R Deshpande
7	Employer	HR Regional Head, TCS, Pune	Mr Shekhar Kamble
8	Parent	Manager, Quality Assurance, ITW (I), Pvt, Ltd, Pune	Mr Hemant Jadhav
9	Student	General Secretary, General Students Association	

Table 10.1.8 Number of meetings of IQAC

S.N.	Academic Year	Number of Meetings
01	2022-23	03
02	2021-22	02
03	2020-21	02

Service rules, Policies, and procedures

The institute follows all the defined service rules and policies and code of conduct laid down by AICTE, UGC, Government of Maharashtra, and SPPU, for the recruitment and promotion of staff. Pay scale, annual increments, and other staff benefits are being given as per the AICTE and Government of Maharashtra norms.

A) For the recruitment of faculty, the Institute seeks permission from Savitribai Phule Pune University, Pune, and the reservation cell of Maharashtra State for the advertisement for recruitment of faculty. Interviews are conducted through a staff selection committee appointed by the University.

B) For ad-hoc recruitment, the Institute advertises the posts through newspapers and websites. A local staff selection committee as per SPPU norms is appointed for the faculty selection through an interview procedure.

C) Every employee of the institute is aware of the service, recruitment, and promotion rules and code of conduct. These rules are available to the registrar of the institute and also communicated to staff through HODs and published on staff notice boards.

Recruitment norms link: https://aissmscoe.com/wpcontent/uploads/2022/05/Faculty-Recruitment-Norms-2022-23.pdf

10.1.3 Decentralization in Working And Grievance Redressal Mechanism (10)

We at AISSMS COE believe decentralization of activities and delegation of authorities is the key concept in the success achieved by the institute on different platforms. The overall working methodology at the institute level is student-centric and involvement of each and everyone in the decision-making at their respective levels is ensured through decentralization and delegation of powers. There are various bodies, committees, and key administrative positions at the institute and department level. To ensure transparency in the working of all these committees, a code of conduct

and process manual are available to all key administrative officers and the central library of the institute.

Various portfolio in-charges have been delegated powers for taking administrative decisions.

Table 10.1.9 Teachers delegated with administrative powers

S.N.	Name of Faculty member	Decision Authority
01	Dr D S Bormane	Principal
02	Dr C S Choudhari	Coordinator, IQAC
03	Dr Naniwadekar M Y	H.O.D. (Chemical Engineering)
04	Dr P B Nangare	H.O.D. (Civil Engineering)
05	Dr. Athawale S V	H.O.D. (Computer Engineering)
06	Dr (Mrs) A A Godbole	H.O.D. (Electrical Engineering)
07	Dr S B Dhonde	H.O.D. (Electronics and Telecommunications)
08	Dr S V Chaitanya	H.O.D. (Mechanical Engineering)
09	Dr. D V Nighot	H.O.D. (First year Engineering)
10	Dr Shekhapure N G	H.O.D. (Production Engineering)
11	Mr. A B Bhonsale	Administrative officer

In addition to this, various institute-level administrative committees have been formed for effective administration.

Details of the coordinator and committee members are published on the institute's website. (https://aissmscoe.com/wp-content/uploads/2021/01/ILC-for-website-update.pdflink). The functions and responsibilities of the committees are also available on the institute's website. (https://aissmscoe.com/wp-content/uploads/2022/09/Objectives-and-functions-of-ILCs.pdf) Coordinators of all the institute-level committees are delegated administrative powers for the effective functioning of respective committees.

Table 10.1.10 Various Institute level administrative committees and coordinators

Academic Development Cell			
1	Academic Development and Monitoring	Coordinator	Dr. B. D . Bachchhav
2	Faculty Development	Coordinator	Dr. D P Gaikwad Chaitanya
3	Management Information System	Coordinator	Mr. V. B. Gawai
4	Library Development	Coordinator	Dr Mrs. V. S Dandawate
5	NBA Preparations	Coordinator	Dr. M R Phate
6	NAAC Steering Committee	Coordinator	Dr D Y dhande
7	Students Association and Professional Bodies	Coordinator	Mr N. P .Mawale
Centre for Information, Training and Placements Head: Dr A V Waghmare			
8	Placements	Coordinator	Placement Officer
9	Training	Coordinator	Mr. V. S. Ponkshe
10	Counseling and mentoring	Coordinator	Dr Mrs. V V Deshmukh
11	Industry Institute Interaction (III)	Coordinator	Mr. P M Warke
12	Entrepreneurship and Skill Development	Coordinator	Mr. S. N. Chiwande
13	Alumni Engagement	Coordinator	Dr. S R Patil
14	Competitive Examinations	Coordinator	Dr R D Nalawade
Research and Development Cell			
15	Research, Development and Collaborations	Coordinator	Dr. S H Wankhade
16	Innovation, IPR and Start Up	Coordinator	Dr V N Patil
Infrastructure and Facility Cell			
17	Infrastructure and Facility	Coordinator	Dr. G C Chikute
Gymkhana			
	Physical Director, Sports In charge, Media	Coordinator	Dr. M. M. Kondhare
18	Cultural In charge	Coordinator	Mrs. K. N. Kulkarni
19	Magazine In charge, Media	Coordinator	Mrs. S. J. Pachouly
20	National Service Scheme	Coordinator	Dr. N. N. Shejwal
21	Students Welfare and Development	Coordinator	Dr.A. B. Patil
Administration Cell			
22	Budget Preparations (Purchase and maintenance)	Principal	Dr D S Bormane Principal
23	Admissions	Coordinator	Dr D V Nighot
24	Examinations	Coordinator	Dr. D. V. Nighot
Media Interface and Outreach Cell			
25	Media Liasioning	Coordinator	Mr S M chaudhari
26	Website	Coordinator	Mr. N. R. Talhar

Other than the above mentioned committees, at the department level, committees are formed for the smooth and efficient management of activities at the department level. The committees are constituted by the HOD in consultation with faculty.

For effective implementation of various initiatives and effective decentralization, committees such as department advisory boards and program assessment and quality improvement committees are formed at the department level.

Table 10.1.11 Department Advisory Board members

S.N.	Representation	Name	Organization
1	Chairman	Dr S B Dhonde	HOD, AISSMS COE
2	Program coordinator NBA	Dr. K B Chaudhari	AISSMS COE
3	PG Coordinator	Dr P P Vast	AISSMS COE
4	Module Coordinator Software Modeling Department academic Coordinator, CITP coordinator	Mr S B Dhekale	AISSMS COE
5	Module Coordinator Humanities,Employability and Skill Development NAAC Coordinaor	Mr. N P Mavale	AISSMS COE
6	Module Coordinator VLSI and Embedded	Ms V D Nagrale	AISSMS COE
7	Module Coordinator Network & Security	Ms V V Deshmukh	AISSMS COE
8	Module Coordinator Communication & Signal Processing	Mrs Y P Lad	AISSMS COE
9	Module coordinator Network and Security	Mr V B Gawai	AISSMS COE
10	Academics representative	Dr. S P Mahajan	COEP Technological University
11	Industry representative	Dr. Pratap Sanap	Persistence, Pune
12	Alumina representative	Mr Sagar Sadigale	IBM, Pune
13	Parent representative	Mr.Sujit Waghavakar	Barkalyes, Pune
14	Student representative	Ms Saumya Thakur	Student, AISSMS COE

Table 10.1.12 PAQIC members

S.N.	Name of Member	Representation	Designation
1	Head of Department	Dr D G Bhalke	Chairman
2	Departmental NBA Coordinator	Dr. K B Chaudhari	Coordinator
3	Department academic Coordinator, CITP coordinator	Mr S B Dhekale	Member
4	Departmental exam Co-ordinator and module coordinator	Mrs. Y P Lad	Member
5	Module coordinator Humanities, Employability, and Skill Development	Mr. N P Mavale	Member
6	PG Coordinator	Dr. P P Vast	Member
7	Module Co-ordinator Network & Security	Ms. V V Deshmukh	Member
8	Module Co-ordinator VLSI and Embedded	Ms. V D Nagrale	Member
9	Module Co-ordinator Project Coordinator	Dr R R Itkarkar	Member

AISSMS COE,Pune

Department of E&TC Engineering

Department Advisory Board

Academic Year: 2022-23

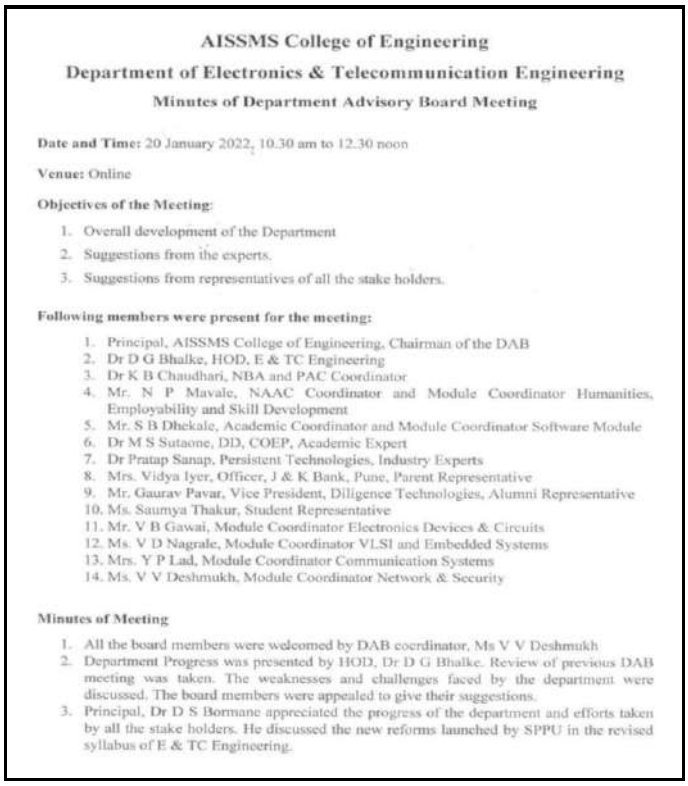
Sr No	DAB Representative	Name	Organization
1	Chairman	Prof Dr S B Dhonde HOD	AISSMS COE,Pune
2	Program Coordinator NBA NAAC	Dr K B Chaudhari Mr N P Mawale	AISSMS COE,Pune AISSMS COE,Pune
3	PG Coordinator	Dr P P Vast	AISSMS COE,Pune
4	Module Coordinator Software Modeling	Mr. S B Dhekale	AISSMS COE,Pune
5	Module Coordinator Humanities, Employability and Skill Development	Mr. N P Mawale	AISSMS COE,Pune
6	Module Coordinator VLSI and Embedded	Ms. V D Nagrale	AISSMS COE,Pune
7	Module Coordinator Network & Security	Dr. V V Deshmukh	AISSMS COE,Pune
8	Module Coordinator Communication & Signal Processing	Ms. Y P Lad	AISSMS COE,Pune
9	Module Coordinator Electronics Devices & Circuits	Mr. V B Gawai	AISSMS COE,Pune
10	Academic Representative	Dr S P Mahajan	Govt COE, Pune
11	Industry Representative	Dr Pratap Sanap	Persistance Pvt Ltd, Pune
12	Alumina Representative	Mr Sagar Sadigale	IBM, Pune
13	Parent Representative	Mr Sujit Waghavkar	BARCLAYS, Pune
14	Student Representative	Ms Saumya Thakur	AISSMSCOE,Pune

HOD

Department of E&TC Engineering

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

Figure 10.1.1 DAB Committee



AISSMS College of Engineering

Department of Electronics & Telecommunication Engineering

Minutes of Department Advisory Board Meeting

Date and Time: 20 January 2022, 10.30 am to 12.30 noon

Venue: Online

Objectives of the Meeting:

1. Overall development of the Department
2. Suggestions from the experts.
3. Suggestions from representatives of all the stake holders.

Following members were present for the meeting:

1. Principal, AISSMS College of Engineering, Chairman of the DAB
2. Dr D G Bhalke, HOD, E & TC Engineering
3. Dr K B Chaudhari, NBA and PAC Coordinator
4. Mr. N P Mavale, NAAC Coordinator and Module Coordinator Humanities, Employability and Skill Development
5. Mr. S B Dhekale, Academic Coordinator and Module Coordinator Software Module
6. Dr M S Sutaone, DD, COEP, Academic Expert
7. Dr Pratap Sanap, Persistent Technologies, Industry Experts
8. Mrs. Vidya Iyer, Officer, J & K Bank, Pune, Parent Representative
9. Mr. Gaurav Pavar, Vice President, Diligence Technologies, Alumni Representative
10. Ms. Saumya Thakur, Student Representative
11. Mr. V B Gawai, Module Coordinator Electronics Devices & Circuits
12. Ms. V D Nagrale, Module Coordinator VLSI and Embedded Systems
13. Mrs. Y P Lad, Module Coordinator Communication Systems
14. Ms. V V Deshmukh, Module Coordinator Network & Security

Minutes of Meeting

1. All the board members were welcomed by DAB coordinator, Ms V V Deshmukh
2. Department Progress was presented by HOD, Dr D G Bhalke. Review of previous DAB meeting was taken. The weaknesses and challenges faced by the department were discussed. The board members were appealed to give their suggestions.
3. Principal, Dr D S Bormane appreciated the progress of the department and efforts taken by all the stake holders. He discussed the new reforms launched by SPPU in the revised syllabus of E & TC Engineering.
4. Programme outcomes and gap in the attainment were discussed. Suggestions from the brain storming in the PAC meeting were presented to the DAB for perusal and approval.
5. Alumni representative Mr Gaurav Pawar mentioned that the gap between the industry and institute need to be reduced. This can be filled up with the help of the internships. More industry sponsored projects will keep the students updated with corporate practices.
6. Parent representative Mrs Vidya Ayer expressed that the practical exposure is essential. Skill development is very important for the students. Encourage more participation from the students in various activities and competitions.
7. Industry expert Dr Pratap Sanap mentioned that more internships and hands-on training sessions must be arranged for students. He said that now a days students lack in providing the overall solution to an electronics system. The third observation is that the students are weak in articulation of the experiences. Effective communication with the customers or the peers is very important.
8. Student representative, Ms Saumya reported that they are happy with the internships and overall activities in the department. Students can practice more on software assignments and develop programming skills. However, the students lack hardware skills.
9. Academic expert Dr M S Sutaone suggested that more emphasis and effective implementation of choice-based learning will enhance the learning experience of students.
10. Dr. K B Chaudhari asked suggestions regarding faculty training. Dr Sanap has invited list of domains in which training is required.
11. In conclusion, more engagement of students in various activities and competitions will build confidence among students.
12. Ms V V Deshmukh concluded the meeting and proposed vote of thanks.

Few Glimpses:

Dr K B Chaudhari
PAC Coordintor

Dr D G Bhalke
HoD, E & TC Engineering

Figure 10.1.2 DAB Committee meeting and minutes of meeting

Grievance redressal is systematically carried out by various teams of teachers and staff acting as committee members acting as committees under the guidance of the Principal of the institution. A list of faculty members who are administrator's / decision maker's /committee members for various responsibilities is shown in the tables given below.

A Grievance Redressal Committee (GRC) at the College level is constituted to provide guidance and counseling on the problems related to faculty, staff, and students.
The Committee redresses all kinds of grievances, academic or non-academic.

Table 10.1.13 Members of Grievance Redressal Committee (GRC)

S. N.	Faculty Name and Designation	Post
01	**Dr (Mrs) M S Deshpande, Professor in Chemistry**	**Coordinator**
02	Mr P B Nangare, Assistant Professor in Civil Engineering	Member
03	Ms M V Waghmare, Assistant Professor in Civil Engineering	Member
04	Mr S V Chaitanya, Assistant Professor in Mechanical Engineering	Member
05	Ms S S Chauhan, Finance Officer	Member
06	General Secretary (Student Member)	Member

The Grievance Redressal Committee shall meet within a week from the date of receipt of any petition/complaint from anybody and take necessary action as deemed fit and initiate necessary action for solving the problem.

Mechanism of Grievance Redressal Committee

a. An aggrieved stakeholder who has a grievance or grievances shall make a written complaint first to the Head of the Department (HOD). The HOD after verifying the facts, will try to redress the grievance within a reasonable time. If the stakeholder is not satisfied with the solution of the HOD, then the written complaint should be forwarded to the Principal through the HOD. The Principal then refers the complaint to the Internal Grievance Redressal Committee.
b. On receiving the complaint from the Principal, the Internal Grievance Committee meeting is called by the Chairman. The complaint is studied by the Committee. The Committee at all levels observes the law of natural justice.

c. The Committee arranges a meeting with the aggrieved party first, and he/she expresses their views. Similarly meeting with all aggrieved members is scheduled. Thus all the concerned are given an opportunity, one by one to express their viewpoint. Each one is requested to give their say in writing. The committee gives a patient hearing to both sides and counsels them. The committee also enlightens them based on their SWOC.
d. After verifying the facts based on factual data and after deliberations, the report of the committee's findings and remedial measures is prepared and submitted to Principal Sir.
e. The final decision is communicated to both parties through the Principal.
f. The Committee, if needed, may recommend to the Principal, necessary corrective action as it may deem fit, to ensure avoidance of recurrence of similar grievance.

Note: The staff/student can lodge their grievance through an online link available on the Institute's website too (http://aissmscoe.com/academics/online-grievance-redressal/)

Anti-Ragging Committees:

Regarding AICTE (Prevention and Prohibition of Ragging in Technical Education, Universities including Deemed to be Universities imparting technical education) Regulations 2009 and as per clause No.6(a) of this AICTE Regulations - 2009, Anti-Ragging Committee is formed comprising of experts, faculty members, parents, students, etc to look into any kind of ragging matter reported to them from time to time. The Committee takes immediate action in the matter reported to them, following all the guidelines given in the referred AICTE Regulation - 2009. The Committee also reviews the activities of the Anti-Ragging Squad and suggests measures to effectively monitor the anti-ragging activities.

Anti Ragging Committee for The academic year 2020-21

Table 10.1.12 Members of Anti-Ragging Committee

Sr No	Name	Designation	Post
1	Dr D S Bormane	Principal	Chairman
2	Shri Suresh P Shinde	Businessman	Civil administration
3	Shri M M Mujawar	P I	Ex-Officer Member
4	Shri Harsh Dudhe	Reporter, Maharashtra Times Newspapers Ltd, Pune	Media Member
5	Shri V R Patil	Assistant Professor in Mechanical Department	Member

6	Mrs. S J Pachouly	Assistant Professor in Computer Engineering Department	Member
7	Mrs Seema Chaudhari	Parent Representative	Member
8	Anjali Chaudhari	Student: GS	Member
9	Shri A B Bhonsle	Administrative Officer	Member

ANTI RAGGING COMMITTEE (SQUAD)

Regarding AICTE (Prevention and Prohibition of Ragging in Technical Education, Universities including Deemed to be Universities Imparting Technical Education) Regulations 2009 and as per clause No.6(a) of this AICTE Regulations - 2009, the Anti-ragging Squad is formed to look into the matters of ragging.

The squad will continuously maintain a vigil on the College campus and monitor the activities of the students. If any activity of students is found suspicious then immediate action is to be taken. The squad patrols the canteen area, parking area, the College building, and Ladies' hostel. The patrolling of the outside area near the College will also be done.

The students can contact Committee members at any time regarding any kind of problem created by students in the campus or outside the campus. The students can personally meet any of the above members in the College during working hours.

Table 10.1.14 Members of anti-ragging squad

Sr. No.	Faculty Name and Designation	Post
01	**Mr. V R Patil, Assistant Professor & Head, First Year Engineering**	**Coordinator**
02	Dr. M K Nikam, Associate Professor in Engineering Mathematics	Member
03	Dr. S K Upasani, Associate Professor in Chemistry	Member
04	Mr. A J Kadam, Assistant Professor in Computer Engineering	Member
05	Mr. A B Bhonsle, Administrative Officer	Member
06	Dr. M M Kondhare, Physical Director	Member

Vishakha (Sexual Harassment Committee)

Table No. 10.1.15 Members of Vishakha

Sr. No.	Faculty Name and Designation	Post
01	**Dr (Mrs) P S Gajjal,** Associate Professor in Mechanical Engineering	**Coordinator**
02	Ms. S J Pachouly, Assistant Professor in Computer Engineering	Member
03	Ms. V S Dandawate, Librarian	Member
04	Mr. S P Pimpale, Registrar	Member
05	Mr. M D Bhalerao, Senior Clerk	Member
06	Mr. D S Kulkarni, Technical Assistant	Member

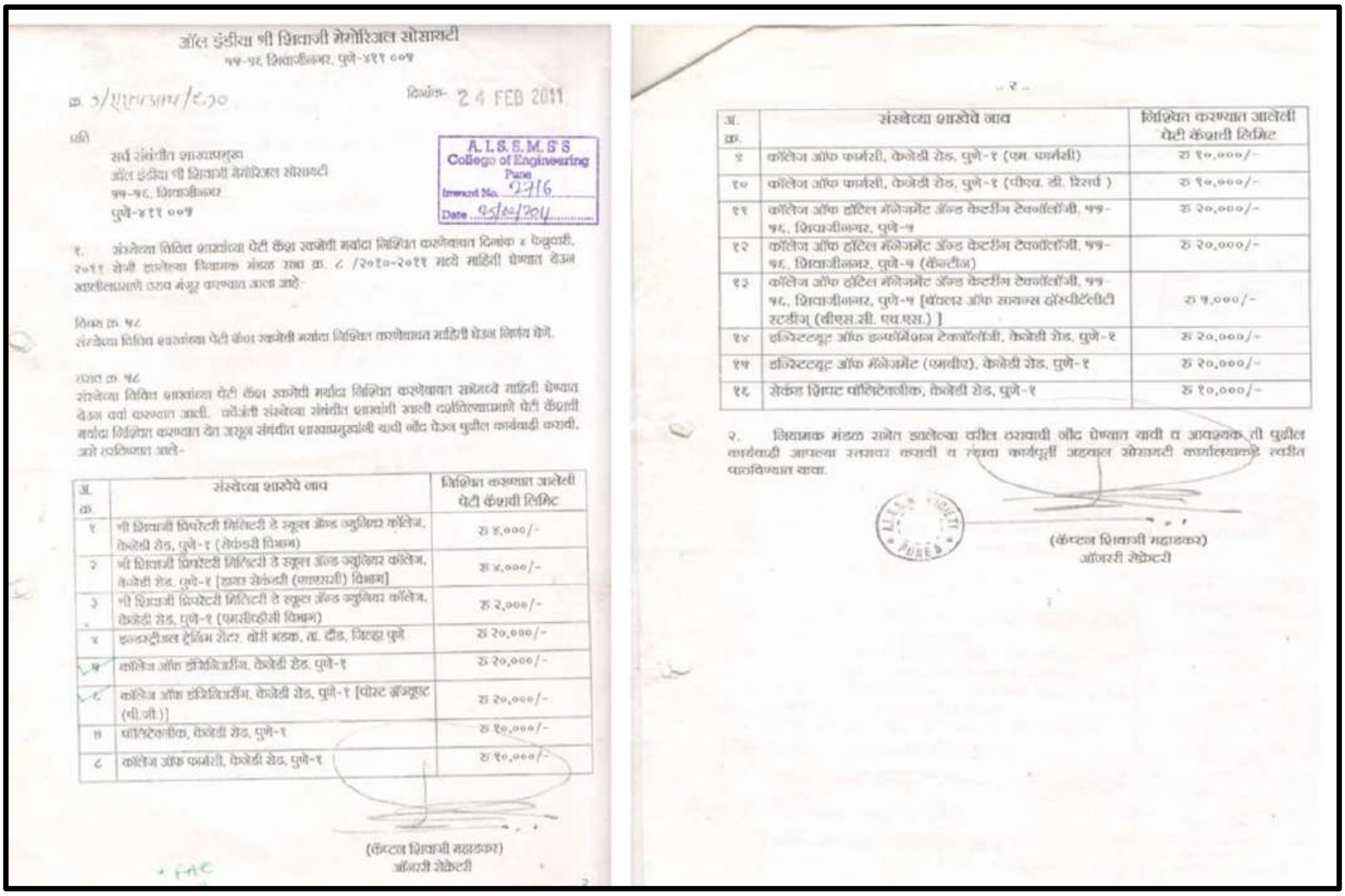
The complaint received by the Principal office from any ladies' staff members or student will be forwarded to the above committee. The committee will look into the complaint and call the concerned complainant personally to hear the grievance. The Chairman of the committee will forward their report in a sealed envelope to the Principal within one week of receipt of a complaint.

10.1.4 Delegation of financial powers (10)

Financial powers are delegated to the Principal of the institute and the principal is one of the signing authorities for financial transactions. Provision of petty cash of Rs. 20,000 is made with the Principal and heads of departments can make expenses using petty cash with the approval of the principal.

Table 10.1.16 Utilization of petty cash in Rs.

Petty cash utilization					
2020-2021		**2021-2022**		**2022-23**	
Sanctioned amount	Utilized amount	Sanctioned amount	Utilized amount	Sanctioned amount	Utilized amount
150543.00	146403.00	127503.00	127441.00	201190.00	201190



ऑल इंडीया श्री शिवाजी मेमोरिअल सोसायटी
५५-५६, शिवाजीनगर, पुणे-४११ ००५

क्र. ३/११२५/३१५/८७० दिनांक- 24 FEB 2011

A.I.S.S.M.S'S College of Engineering Pune
Inward No. 9716
Date 25/02/2011

प्रति
सर्व संबंधीत शाखाप्रमुख
ऑल इंडीया श्री शिवाजी मेमोरिअल सोसायटी
५५-५६, शिवाजीनगर
पुणे-४११ ००५

१. संस्थेच्या विविध शाखांच्या पेटी कॅश रकमेची मर्यादा निश्चित करणेबाबत दिनांक ४ फेब्रुवारी, २०११ रोजी झालेल्या नियामक मंडळ सभा क्र. ८ /२०१०-२०११ मध्ये माहिती घेण्यात येऊन खालीलप्रमाणे ठराव मंजूर करण्यात आला आहे-

विषय क्र. ५८
संस्थेच्या विविध शाखांच्या पेटी कॅश रकमेची मर्यादा निश्चित करणेबाबत माहिती घेऊन निर्णय घेणे.

ठराव क्र. ५८
संस्थेच्या विविध शाखांच्या पेटी कॅश रकमेची मर्यादा निश्चित करणेबाबत सभेमध्ये माहिती घेण्यात येऊन चर्चा करण्यात आली. चर्चेअंती संस्थेच्या संबंधीत शाखांनी खाली दर्शविल्याप्रमाणे पेटी कॅशची मर्यादा निश्चित करण्यात येत असून संबंधीत शाखाप्रमुखांनी याची नोंद घेऊन पुढील कार्यवाही करावी, असे ठरविण्यात आले-

अ. क्र.	संस्थेच्या शाखेचे नाव	निश्चित करण्यात आलेली पेटी कॅशची लिमिट
१	श्री शिवाजी प्रिपरेटरी मिलिटरी हे स्कूल अँन्ड ज्युनियर कॉलेज, केनेडी रोड, पुणे-१ (सेकंडरी विभाग)	रु ६,०००/-
२	श्री शिवाजी प्रिपरेटरी मिलिटरी हे स्कूल अँन्ड ज्युनियर कॉलेज, केनेडी रोड, पुणे-१ [हायर सेकंडरी (व्यावसायी) विभाग]	रु ४,०००/-
३	श्री शिवाजी प्रिपरेटरी मिलिटरी हे स्कूल अँन्ड ज्युनियर कॉलेज, केनेडी रोड, पुणे-१ (प्रायमरी विभाग)	रु २,०००/-
४	इन्डस्ट्रीअल ट्रेनिंग सेंटर, बोरी भडक, ता. दौंड, जिल्हा पुणे	रु २०,०००/-
५	कॉलेज ऑफ इंजिनिअरींग, केनेडी रोड, पुणे-१	रु २०,०००/-
६	कॉलेज ऑफ इंजिनिअरींग, केनेडी रोड, पुणे-१ [पोस्ट ग्रॅज्युएट (पी.जी.)]	रु २०,०००/-
७	पॉलिटेक्निक, केनेडी रोड, पुणे-१	रु १०,०००/-
८	कॉलेज ऑफ फार्मसी, केनेडी रोड, पुणे-१	रु १०,०००/-

(कॅप्टन शिवाजी महाडकर)
ऑनररी सेक्रेटरी

.. २ ..

अ. क्र.	संस्थेच्या शाखेचे नाव	निश्चित करण्यात आलेली पेटी कॅशची लिमिट
९	कॉलेज ऑफ फार्मसी, केनेडी रोड, पुणे-१ (एम. फार्मसी)	रु १०,०००/-
१०	कॉलेज ऑफ फार्मसी, केनेडी रोड, पुणे-१ (पीएच. डी. रिसर्च)	रु १०,०००/-
११	कॉलेज ऑफ हॉटेल मॅनेजमेंट अँन्ड केटरींग टेक्नॉलॉजी, ५५-५६, शिवाजीनगर, पुणे-५	रु २०,०००/-
१२	कॉलेज ऑफ हॉटेल मॅनेजमेंट अँन्ड केटरींग टेक्नॉलॉजी, ५५-५६, शिवाजीनगर, पुणे-५ (कॅन्टीन)	रु २०,०००/-
१३	कॉलेज ऑफ हॉटेल मॅनेजमेंट अँन्ड केटरींग टेक्नॉलॉजी, ५५-५६, शिवाजीनगर, पुणे-५ [बॅचलर ऑफ सायन्स हॉस्पीटॅलीटी स्टडीज (बीएस.सी. एच.एस.)]	रु ५,०००/-
१४	इन्स्टिट्यूट ऑफ इन्फॉर्मेशन टेक्नॉलॉजी, केनेडी रोड, पुणे-१	रु २०,०००/-
१५	इन्स्टिट्यूट ऑफ मॅनेजमेंट (एमबीए), केनेडी रोड, पुणे-१	रु २०,०००/-
१६	सेकंड शिफ्ट पॉलिटेक्नीक, केनेडी रोड, पुणे-१	रु १०,०००/-

२. नियामक मंडळ सभेत झालेल्या वरील ठरावाची नोंद घेण्यात यावी व आवश्यक ती पुढील कार्यवाही आपल्या स्तरावर करावी व त्याचा कार्यपूर्ती अहवाल सोसायटी कार्यालयाकडे त्वरीत पाठविण्यात यावा.

(कॅप्टन शिवाजी महाडकर)
ऑनररी सेक्रेटरी

Figure 10.1.3 Petty cash facility allotted to institutes

10.1.5 Transparency and Availability of correct /unambiguous Information in the public Domain

1. Unambiguous information is displayed on all general notice boards including department notice boards, Center for Information, training and placement cell (CITP), student section, library, and other important areas.
2. Copies of official notices are circulated to the entire faculty, technical and non-technical staff and students.
3. The institute's website is continuously updated to disseminate all the information about policies, students, faculty, and relevant information. The institute's website is www.aissmscoe.com.

Table 10.1.17 URLs for information available on the institute website

S.N.	Name of document	URL of a document on the website
1	Vision, mission, goals, and core values of the institute	https://aissmscoe.com/about-us/college-profile/
2	Admissions	https://aissmscoe.com/admission/admission-enquiry/
3	AICTE Approval Letters	https://aissmscoe.com/aicte-approvals/
4	Mandatory disclosure	https://aissmscoe.com/mandatory-disclosure/
5	Stakeholders feedback	https://aissmscoe.com/stakeholders/
6	AICTE essentials	https://aissmscoe.com/aicte-essentials/
Faculty Profile		
7	Department of Chemical Engineering	https://aissmscoe.com/chemical-engineering/faculty/
8	Department of Civil Engineering	https://aissmscoe.com/civil-engineering/faculty/
9	Department of Electrical Engineering	https://aissmscoe.com/ electrical-engineering/faculty/
10	Department of Electronics and Telecommunication	https://aissmscoe.com/electronics-engineering/faculty/
11	Department of First-Year Engineering	https://aissmscoe.com/first-year-engineering/faculty/
12	Department of Mechanical Engineering	https://aissmscoe.com/ mechanical - engineering/faculty/
13	Department of Production Engineering	https://aissmscoe.com/production-engineering/faculty/
Annual Reports		
14	Department of Chemical Engineering	https://aissmscoe.com/chemical-engineering/annual-reports/
15	Department of Civil Engineering	https://aissmscoe.com/ civil-engineering/annual-reports/
16	Department of Electrical Engineering	https://aissmscoe.com/ electrical-engineering/annual-reports/
17	Department of Electronics and Telecommunication	https://aissmscoe.com/electronics-engineering/annual-reports/
18	Department of First-Year Engineering	https://aissmscoe.com/first-year-engineering/annual-reports/
19	Department of Mechanical Engineering	https://aissmscoe.com/ mechanical - engineering/annual-reports/
20	Department of Production Engineering	https://aissmscoe.com/production-engineering/annual-reports/

Figure 10.1.4 Best Professional College of SPPU

Figure 10.1.5 Best Principal Award by ISTE

Figure 10.1.6 Best Principal Award by SPPU "Firodiya

Figure 10.1.7 Winner of prestigious Trophy 2022"

10.2	Budget Allocation, Utilization, and Public Accounting at the Institute level	30

10.2.1 Adequacy of budget allocation (10)

10.2.1 Adequacy of budget allocation

The college has a well-formulated financial policy that ensures effective and optimal utilization of finances for academic, administrative, and development purposes which help ultimately in realizing the institute's vision and mission.

The institute has made the necessary provision in the account for the efficient use of available funds for each academic year. As per the guidelines of the management and Principal, Variance reports of sanctioned budget and actual expenditure are regularly maintained.

The Institute has a well-defined procedure to monitor the effective and efficient utilization of available financial resources for infrastructure development and academic processes. Every year, the budget is prepared well in advance by considering the requirements of every Department. Each Department prepares the budget based on the requirements such as equipment, computers, and consumables required for the next academic session. The principal puts up the budget in the Governing Body meeting and after discussion and necessary corrections/modifications; the Governing Body recommends the budget for approval. The budget is reviewed by the management and approved after necessary changes. As and when required, the institute makes an advance provision of additional funds. The Principal and the Head of Departments discuss the requirements and decide the priorities while allocating financial resources for various purposes ensuring the optimum use of available financial resources. The Governing body studies the annual expenditure, scrutinizes the budget, and provides feedback for efficient use of financial resources. The Institute has standardized procedures for sanctioning funds for various activities, settling advances, and passing bills for payment.

The Management has given complete support to the Principal for organizing various co-curricular & extracurricular activities like technical events, sponsoring faculty & staff for skill development programs, providing financial support for attending conferences, and workshops, pursuing higher education, etc. Financial support is also provided for the participation of students at various national and international level events like Baja, Supra, Effi-cycle, Go-Kart, Aero-design, and different clubs like Robotics and Drone.

The Society has constituted a separate purchase Committee composed of Management representative, Principal & college concerned staff. The purchase procedure such as calling quotation, technical bid, preparing a comparative statement, and negotiation meetings are followed for effective and efficient use of available financial resources. The committee ensures that suitable equipment with the right specifications is procured at competitive and optimal prices.

Financial audits are conducted by a chartered accountant every financial year to verify compliance with established processes.

In addition, the college provides financial assistance to students for participation in various national & state level cultural & Sports competitions. We are very proud to say that due to the financial freedom given by the management in the organization of various sports & Cultural events at the institute level and the participation of our students in national & State level culture & Sports competitions, our students have shown excellent performance in these events.

10.2.2 Utilization of allocated funds (15)

Each department HOD after receiving the approved budget convenes a meeting and discusses the step-by-step procedure for procuring the equipment and consumables required for the department Faculty who are in charge of the laboratories and course coordinators are nominated to be involved in the purchase of equipment. The nominated faculty members identify the companies/ agencies to receive the quotations and then prepare a comparative statement. The comparative statement will be submitted to the purchase Committee to get approval from the management and then place orders to procure the items. The HOD periodically monitors and makes necessary efforts to see that the purchase of items is complete in all respects and the allocated funds are fully utilized.

10.2.3 Availability of the audited statements on the institute website (5)

Audited statements are uploaded on the institute's website and are available to the public.

(https://aissmscoe.com/mandatory-disclosure/ (https://aissmscoe.com/mandatory-disclosure/)

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3
CFY: (Current Financial
Year),
CFYm1: (Current Financial Year minus 1), CFYm2: (Current Financial Year minus 2) and
CFYm3: (Current Financial Year minus 3)

Table 1 - CFY 2022-23

Total Income: 399702308.14				Actual expenditure(till…): 418105083.99			Total No. Of Students 3032
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non-Recurring	Special Projects/Any other, specify	Expenditure per student
398999702.00	0	0	702606.14	378567997.99	39537086.00	0	137897.46

Table 2 - CFYm1 2021-22

Total Income 384514955.00				Actual expenditure(till…): 337150209.65			Total No. Of Students 3030
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non-Recurring	Special Projects/Any other, specify	Expenditure per student
383581137.00	0	0	933818.00	329543094.65	7607115.00	0	111270.70

Table 3 - CFYm2 2020-21

Total Income 374544068.00				Actual expenditure(till…): 300948858.43			Total No. Of Students 3112
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non-Recurring	Special Projects/Any other, specify	Expenditure per student
373411482.00	0	0	1132586.00	291096339.43	9852519.00	0	96705.93

Table 4 - CFYm3 2019-20

Total Income 319073736.52				Actual expenditure(till…): 359356147.59			Total No. Of Students 2815
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non-Recurring	Special Projects/Any other, specify	Expenditure per student
317338255.00	0	0	1735481.52	330815515.52	26120926.11	0	126798.03

Items	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till
Infrastructure Built-Up	37258928.00	37755455.00	33535208.00	32066113.00	32312734.00	29716580.00	51005208.00	49970510.11
Library	441500.00	3948274.00	4325000.00	4099379.00	5510000.00	5500268.00	3925000.00	3296066.00
Laboratory equipment	3450000.00	34373476.00	5950000.00	4805267.00	8000000.00	7864601.00	6100000.00	5202903.00
Laboratory consumables	1600000.00	1563902.00	700000.00	231398.00	700000.00	542036.00	1000000.00	935167.00
Teaching and non-teaching staff salary	283000000.00	283193697.00	227150000.00	226611240.00	208550000.00	207828775.00	205000000.00	204913144.00
Maintenance and spares	3450000.00	3226710.00	4200000.00	3419956.60	2750000.00	2591638.00	5450000.00	5312396.00
R&D	1700000.00	1120079.00	4200000.00	1723831.00	1400000.00	392884.00	3700000.00	1136690.00
Training and Travel	5800000.00	5420697.00	2850000.00	2750408.62	6020000.00	5330814.00	8300000.00	8328591.00
Miscellaneous expenses *	650000.00	332820.85	580000.00	184210.00	280000.00	58504.00	5430000.00	5331466.00
Others, specify	51076072.00	47169973.14	46577240.88	46296208.49	33143792.00	25400338.23	51789792.00	51947991.84
Total	**388426500.00**	**418105083.99**	330067448.88	322188011.71	298666526.00	285226438.23	341700000.00	336374924.95

10.3	Program Specific Budget Allocation, Utilization (30)	10

10.3.1 Adequacy of budget allocation (10)

- As per the regular purchase process of the financial year, requirement of the department is considered for the preparation of the annual budget.
- Before the commencement of the financial year details of the purchase requirement (recurring and non-recurring details) are collected from the laboratory in charge of the department.
- The budget is finalized by the Head of the Department by considering the annual intake of the students, university curriculum, industry requirements, laboratory & infrastructure development. The requirement Budget for the equipment, computers, software, consumables, maintenance & furniture, etc. is finalized. Apart from this, budget proposals are prepared for co-curricular, extra-curricular, and extension activities for the overall development of students.
- The Head of the Department submits the proposal of the budget to the Principal and the same is put up in the College Development Committee (CDC) and Governing Body (GB) meeting, after discussion and necessary corrections/modifications, the College Development Committee and Governing Body recommend the budget for approval.
- The budget is reviewed by the management and approved after necessary changes.
- The budget allocated by the institute to the department is adequate to cater to the department's needs to upgrade the laboratory for equipment, consumables, software, computers, maintenance space, furniture, etc., and for conducting curricular and extracurricular activities.

10.3.2 Utilization of allocated funds (15)

The Funds allocated to the department are effectively utilized and are adequate as per the departmental academic requirement. As per the requirements of the University curriculum, all the laboratories in the department are being upgraded regularly by purchasing new equipment and accessories and upgrading existing equipment.

The allocated budget for the department is properly utilized in the financial year as per requirement.

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3
CFY: (Current Financial Year),
CFYm1: (Current Financial Year minus 1), CFYm2: (Current Financial Year minus 2) and CFYm3: (Current Financial Year minus 3)

Table 1: CFY 2022-23

7755000.00		Actual expenditure (till…): 7428395.00		Total No. Of Students: 229
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
6500000.00	1255000.00	6497107.00	931288.00	32438.41

Table 2: CFYm1 2021-22

3985500.00		Actual expenditure (till…):3561341.00		Total No. Of Students: 219
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
2200000.00	1785500.00	2029836.00	1531505.00	16261.83

Table 3: CFYm2 2020-21

2198000.00		Actual expenditure (till…): 1590308.00		Total No. Of Students: 208
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
900000.00	1298000.00	937156.00	653152.00	7641.71

Table 4: CFYm3 2019-20

2491000.00		Actual expenditure (till…): 1769798.00		Total No. Of Students: 187
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
300000	2191000	6903	1762895.00	9464.16

Items	Budgeted in 2022-23	Actual Expenses in 2022-23	Budgeted in 2021-22	Actual Expenses in 2021-22	Budgeted in 2020-21	Actual Expenses in 2020-21	Budgeted in 2019-20	Actual Expenses in 2019-20
Laboratory equipment	6500000.00	6467107.00	22,00,000	20,29,836	9,00,000	9,37,156	3,00,000	6,903
Software	250000.00	237846.00	10,00,000	10,15,999	5,00,000	42,909	5,50,000	5,44,558

Laboratory consumable	175000.00	162935.00	1,00,000	86,382	50,000	–	1,00,000	65,844
Maintenance and spares	100000.00	27547.00	1,00,000	1,36,204	1,00,000	67,008	1,00,000	58,444
R & D	200000.00	23500.00	3,00,000	48,719	1,25,000	94,500	3,00,000	-
Training and Travel	480000.00	451725.00	237,500	229201	5,00,000	4,44235	6,91,000	6,94,049
Miscellaneous expenses	50000.00	27735.00	48,000	15,000	23,000	4,500	4,50,000	4,00,000
Total	7755000.00	7398395.00	39,85,500	35,61,341	21,98,000	1590308	24,91,000	17,69,798

10.4	Library and Internet	20

10.4.1 Quality of learning resources

The Learning Resource Center, the Central Library of AISSMS College of Engineering with its state-of-the-art facilities and excellent resources plays a proactive role in providing excellent user services, and optimal use of resources supporting quality enhancement in teaching-learning, research, and extension. Keeping pace with the developments in ICTs, the Institute library works as a digitized knowledge center for accessibility with print and e-resources. It provides focused services to the students and faculty. The Library has a significant collection of books, journals, e-books, e-journals, secondary sources, databases, and digital primary sources.

Integrated Library Management System (SLIM21) is used to manage different functions of libraries for improving accessibility to students. Institute Central Library uses commercial software and Open Source software for the Automation of Library Services. With SLIM21 retrieval of information becomes easy and even a catchy phrase in the description of the cataloged item can be used for searching. SLIM21 supports a flexible workflow to cover activities related to the acquisition of books, serials control, and funds monitoring.

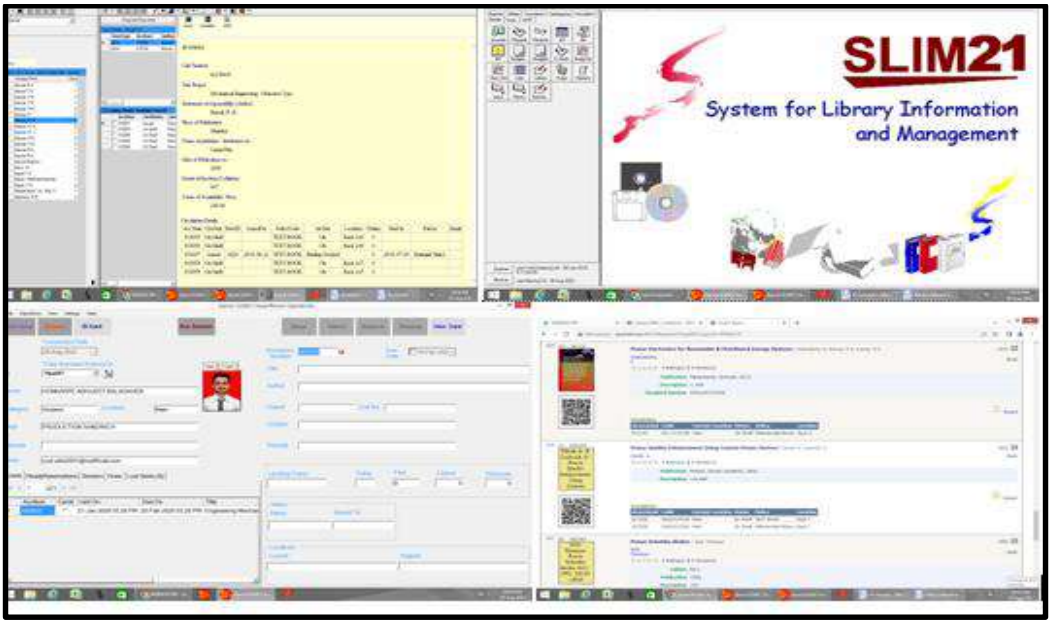


Figure 10.4.1: SLIM Software Screenshots

With the growing popularity of e-resources, libraries are gradually migrating from print documents to e-resources. Qualified and experienced staff play an important role in providing easily accessible and cost-effective information services. The Institute library has subscribed/implemented learning and e-learning resources as shown in the tables given below:

Table 10.4.1: Learning Resources Available in the Library

Learning Resources	Number of resources
Books	36942
E-Journals	1014
e-Journals/e-Books	15000
List of print journals/Magazine	91
List of Newspapers	12
CD/DVD	867

Table 10.4.2: Expenditure in the last three years on learning resources

Year	New Titles added	New Editions added	New volumes added	Expenditure in Rs.
CFY -2019-20	17	9	99	96197.00
CFY-2020-21	428	314	1324	650064.00
CFY- 2021-22	87	36	277	199492.00
CFY- 2022-23	12	12	20	25926.00

Table 10.4.3: Expenditure in the last three years on E-Journals Subscription

Year	Number of E-Journals	Expenditure in Rs.
CFY 2019-20	612	2624635
CFY 2020 -21	1016	2493007
CFY 2021-22	1016	2810777
CFY- 2022-23	1016	3041158

Institute Library has made the following online resources available to the staff and students.

Table 10.4.4: Various online resources available in AISSMS COE Library

AISSMS E-Resource	Contents	Link
Science Direct	275 E-Journals Access	https://www.sciencedirect.com/
IEEE	169 eJournal Backfile Access- Since 2000)	https://ieeexplore.ieee.org/Xplore/home.jsp
ASME Digital Library	27 E-Journals	https://www.asme.org/
ASCE Digital Library	35 E-journals	https://www.asce.org/
Access Engineering	365 E-journals/ E-Books Access	https://www.accessengineeringlibrary.com/user/login
SPRINGER	149 E-Journals	https://link.springer.com/
DELNET	Access Millions of Networked Library Resources through DELNET, 2,20,00,000+ Books available for loan, 5,000+ Full-text E-journals, 1,00,000+ Thesis/Dissertations	http://164.100.247.26/
Knimbus	25000+ ebooks	https://aissms.knimbus.com/user#/home
NDL	Includes all disciplines	https://ndl.iitkgp.ac.in/
List of Open Access Resources	Access to all open-access resources	https://aissmscoelibrary.weebly.com/open-access-resources.html
S Chand Ebooks	Access to 112 E-Textbooks	https://ebooks.schandgroup.com
New Age Ebooks	Access to 50 E-Books	https://digital.elib4u.com/
Person Ebooks	Access to 104 E-Text Books	https://elibrary.in.pearson.com/
Caliber Digital Library	Access to 1012 Free Ebooks	Available in LAN

All the online resources are subscribed as IP-based access subscriptions for easy access. This helps users access any resource from any computer connected to the AISSMS COE Campus LAN through Wi-Fi-enabled devices. This enables users to search multiple databases at a stretch. A remote off-campus access facility is created and this can be used by students from home.

Library user tracking students and faculty

Library user tracking for students and faculty is done through the ERP system. daily visit to library reports can be downloaded through the ERP system

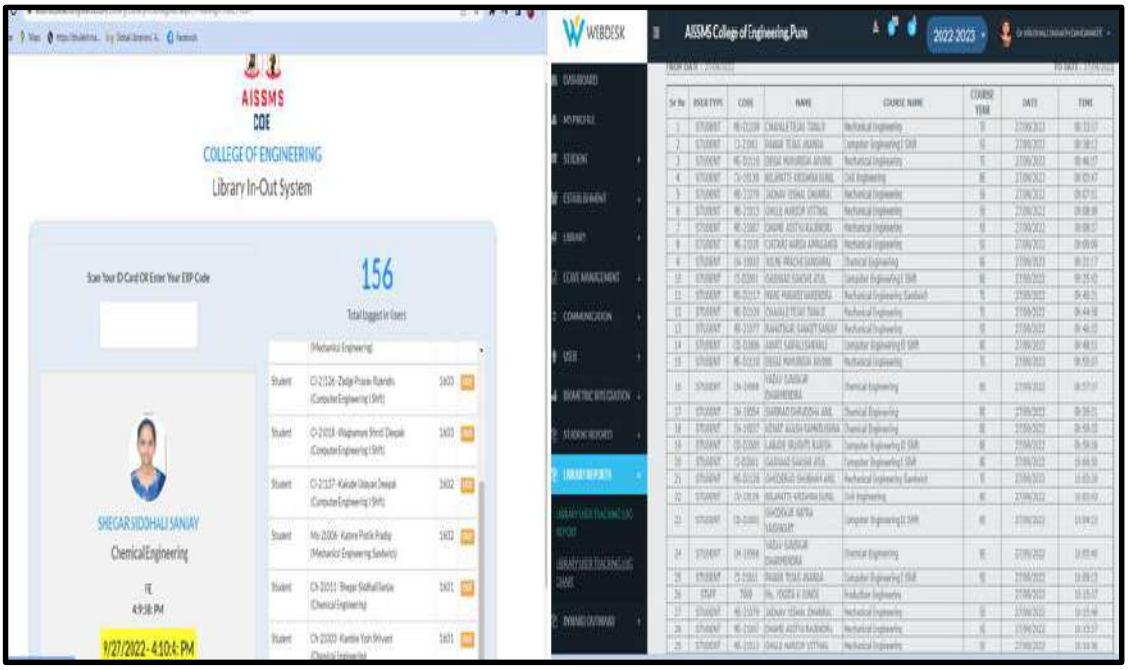


Figure 10.4.2: Screenshot of Library user tracking system

Book Purchase System Process

Library book requirements are collected through a book requisition form. It is made available to all faculty through the Google Drive link. A list of books requested by faculty is sent for quotation to the supplier. The purchase order is placed with the supplier with the Head of the Department and the Principal's approval.

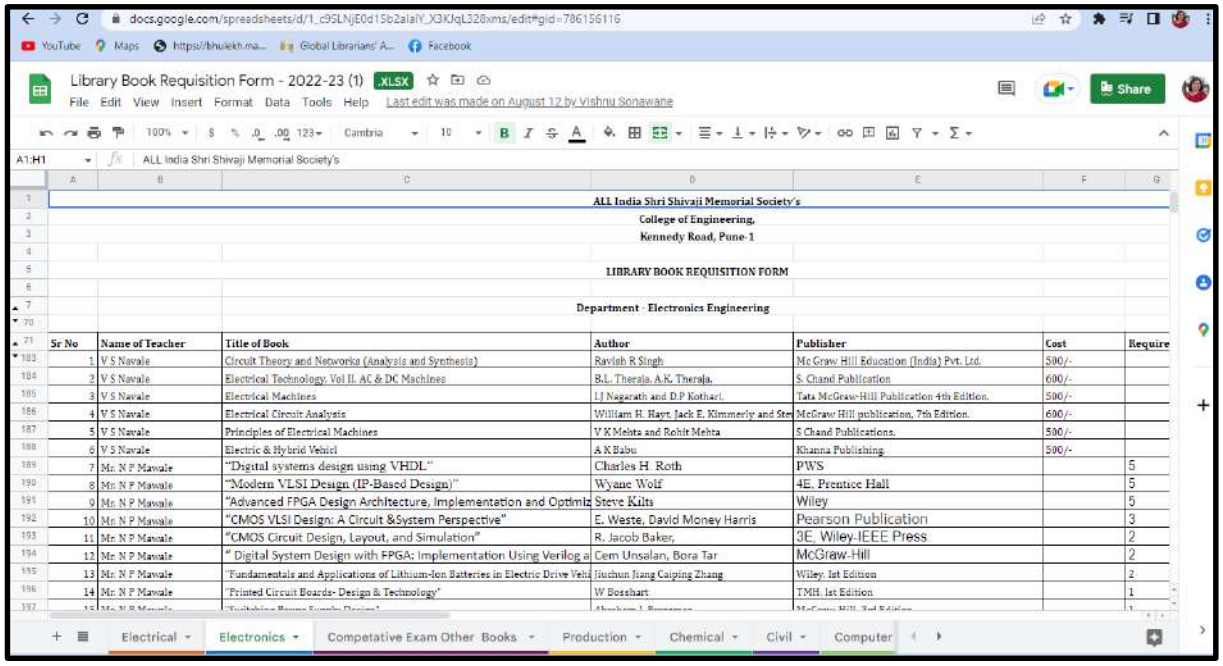


Figure 10.4.3: Screenshot of Library book requisition form

Support to students for self-learning

Institute Library supports students in self-learning activities by creating and making available various platforms for learning. The following resources are accessible to the students:

- 9000 + NPTEL Videos
- 100+ Subjects NPTEL Text Content
- 1500+ E-Books
- Access to previous year's question papers
- Access to the Ekeeda Learning platform
- Access to IIRS training programs
- Access to Coursera (During the Covid pandemic period)
- Access to Edx platform (During the Covid pandemic period)
- Organization of book exhibitions, Author meets, E-resources training program for students
- Use of SLIM webspace for book search and reissue and reservation process

A digital library has been established by the library for the effective use of these self-learning resources. Question point service, "Ask a Librarian" is a unique online service available where queries and reference questions from students are responded to within 24 hours. Additional facilities are created in the library to improve accessibility and support students in self-learning.

- Ask-A-Librarian - Question Point Online Reference Service.
- Wi-Fi accessible across the Library.
- Library e-resources Remote Access (off-campus access) through Knimbus remote access platform.
- User Training, Sensitization, and Information Literacy programs.
- Research Data Management, Publishing support, Style Manuals.
- Workshops/Programs on Research Methods Tools.
- Plagiarism Check tools and services.
- Institutional Repository Dspace for faculty publication
- Faculty publication platform Vidwan
- Print, Scan Services.
- Access to previous year's question papers and syllabus
- Mobile App facility available

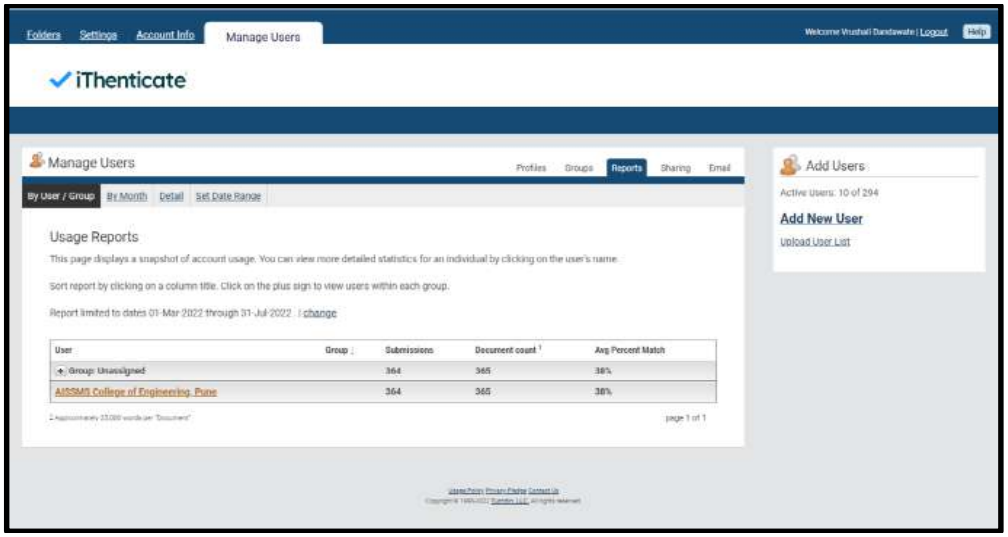


Figure 10.4.4: Plagiarism Software Screenshots

Figure 10.4.5 Library WebOPAC Screenshots

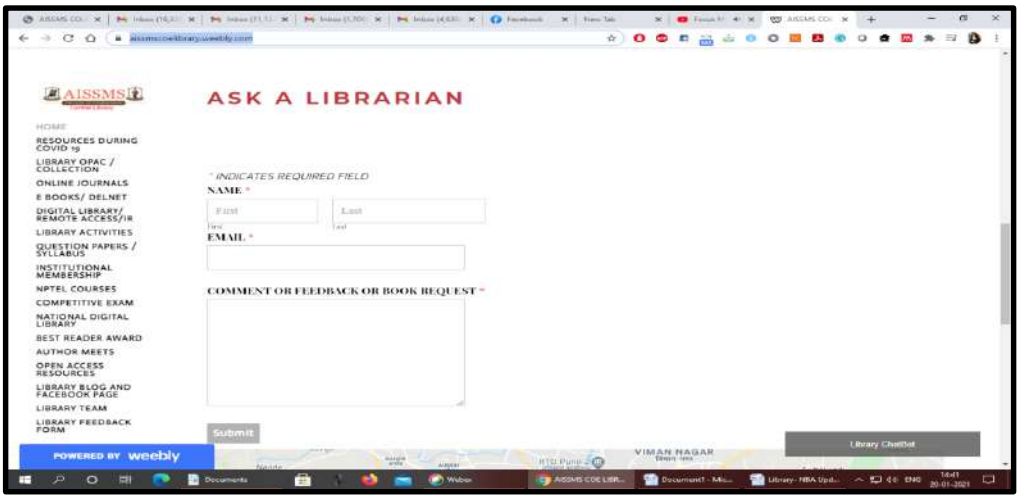


Figure 10.4.6 Ask A Librarian service

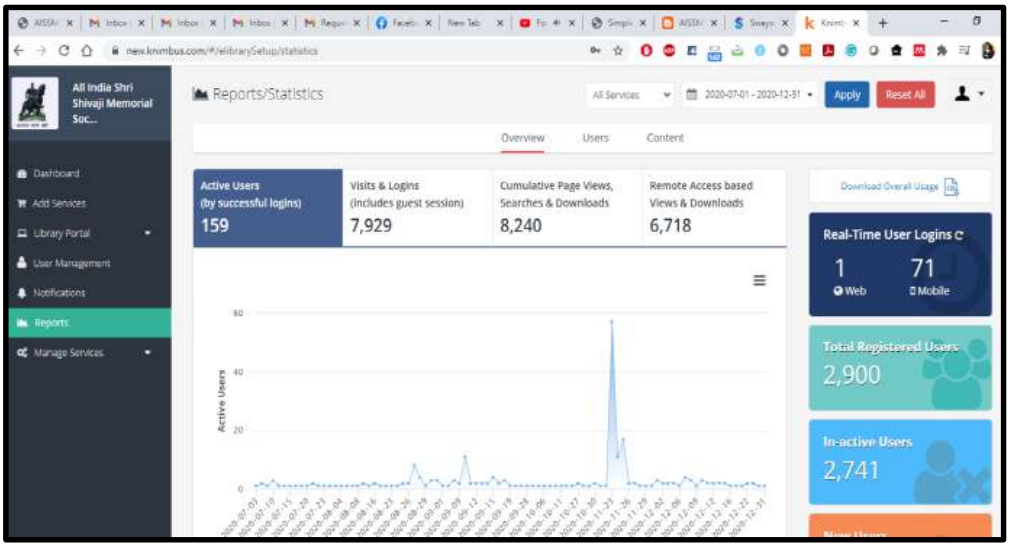


Figure 10.4.7 Use of Remote Access Facility

Figure 10.4.8: Reprography Machine and I card printing facility Information Kiosk

10.4.2 Internet

Name of internet provider	Tata Tele Services Ltd
Available bandwidth	500 Mbps
Wi-fi availability	yes
Internet access in labs, classrooms, library, and offices of all departments; yes	Internet access is available in all the labs, classrooms, libraries, and offices of all departments and administrative offices.
Security arrangements	Layer 3 Firewall (SOPHOS XGS 3300 HW APPLIANCE WITH 8GE). Each user is assigned a user id and password. Antivirus software is installed on all computers and laptops of the institute.