SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

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

AIL INDIA SHRI SHIVAJI MEMORIAL SOCIETY COLLEGE OF ENGINEERING, 1
KENNEDY ROAD, PUNE
411001
www.aissmscoe.com

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2018

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The All India Shri Shivaji Memorial Society (AISSMS) was established in 1917 as a broad based Educational and Social Welfare Organization by His Highness Rajarshi Shrimant Shri Shahu Chhatrapati Maharaj of Kolhapur, His Highness Shri Madhavrao Scindia Maharaj of Gwalior and His Highness Sir Tukojirao Maharaj of Indore with the benevolent mission of the welfare of their subjects. The sole purpose of the Society is to promote the noble cause of education.

The All India Shri Shivaji Memorial Society's College of Engineering(AISSMSCOE) was established in 1992, is approved by AICTE, New Delhi, Recognized by Government of Maharashtra and affiliated to the Savitribai Phule Pune University (SPPU), Pune. At present, Institute offers eight Under Graduate engineering program, namely Chemical, Civil, Computer, Electrical, Electronics and Telecommunication, Mechanical, Mechanical(Sandwich) and Production(Sandwich) leading to the award of Bachelor's degree in Engineering. Institute also offers Seven Post Graduate Courses leading to Master's degree in Engineering in Chemical, Civil(Structure), Computer, Electrical(Power Electronics & Drives), E&TC(Microwave), Mechanical(Automotive) and Mechanical(Design) and one research program in Chemical engineering. The total intake capacity of Institute is 660 students for undergraduate and 126 students for postgraduate per year. Now, institute is celebrating Silver jubilee year.

Standing by its mission of excellence, AISSMSCOE is recognized as a vital knowledge center and for the best talents in the state, outstanding students who regularly top the University Rank, faculty who has diverse experience in teaching and research and philanthropic Management who places social welfare and students' education as their priority.

Vision

Service to society through quality education

Mission

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

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Strong foundation established by social reformers

2. Highly experienced and committed faculty & staff members
3. Located in the heart of the city and surrounded by Industrial hub
4. Strong liaisoning with Industry
5. Recognized under 2(f) and 12(B) category under UGC Act
6. Good support for Extra and Co-curricular activities

Institutional Weakness

1. Few number of major research projects
2. Limited placements in core industries
3. Few Interdisciplinary Projects
4. Less consultancy work
5. Rank of students at entry level

Institutional Opportunity

1. Research and consultancy initiatives
2. Revenue generation through resource sharing
3. Faculty and student exchange programs with foreign Organizations
4. To come up as autonomous Institute

Institutional Challenge

1. Increase placements in core industries
2. Execution of collaboration with foreign Institutions
3. High cost of delivering Education
4. To cope up with emerging technologies
5. To attract high meritorious students

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute follows the curriculum designed and developed by the affiliating University. The faculty members contribute in designing and developing curriculum at various levels such as BOS, Academic Council, subject chairman etc. for syllabus revision.

The Institute has strategic plan for effective implementation of the curriculum. Academic planning is done keeping in view Institute Vision, Mission, and PSOs of various programs. The processes are defined for executing academic activities as per the academic planning done before commencement of the year.

Department Academic Calendars are prepared which include curricular, co-curricular and extra-curricular activities. Various activities related to academic planning are carried out through Enterprise Resource Planning (ERP). The Course planning is done by faculty members which include course content, identified curriculum

gaps based on pre defined POs and COs, keeping in line with Institute mission. The implementation and delivery of the curriculum is regularly coordinated by Department Academic Coordinators (DACs) and monitored by HODs.

Academic Audit is the part of the process which ensures the quality of the curriculum delivery, attainment of ponents of course delivery like Unit tests, seminar, projects, practical, assignment, continuousassessments and students attendance are monitored through this audit. The Institute has taken initiative to start add-on courses to ensure all round development of students and their placement.

Feedback system of the Institute is in place to collect feedback on curriculum, course content delivery, extension activities, faculty development, infrastructural facilities, Laboratory development and value addition of Departments from various stake holders.

Teaching-learning and Evaluation

Institute takes initiatives to assess learning levels of the students through induction program, survey and performance in various examinations. Based on this evaluation special activities are undertaken as per need. The faculty provides students a platform to explore independently, learn through self study and from their peers, guides them to develop effective and lifelong skills. Provisions like ERP, Moodle and additional library facilities are made available to students. Utilization of resources like Virtual laboratories, NPTEL, YouTube, slide share, etc., enhances effectiveness of teaching learning process. Innovative teaching approaches such as proactive methods, digital social learning platform, etc., are adopted by faculty members. Institute takes due care to provide required training and resources to the faculty members for implementing such innovative practices.

Institute, committed to provide quality education to students, has sufficient number of well qualified, competent, experienced teachers. Rational, transparent and unbiased recruitment procedure is implemented without discriminating between caste, religion, region and creed. Various facilities are extended to the teachers to meet national and international professional standards.

Institute closely follows all the examination reforms and the time line set by SPPU. The evaluation process is transparent and efficient. Various innovative formative and summative assessment tools aiming at multidimensional development of student are implemented regularly. Well defined procedure is exercised for addressing grievances.

Overall performance and skills acquired are considered for measuring effectiveness of teaching learning process outcomes. The evaluations and stake holders' feedbacks are analyzed and reviewed for further planning and overcoming experienced barriers in learning.

Research, Innovations and Extension

The Institute has constituted Research and Development Committee to promote research and consultancy related activities. Administrative help, academic assistance, financial support and execution autonomy is given to researchers for smooth progress and implementation of research schemes, projects, design and development

of vehicles for various competitions such as SAE BAJA, Supra, GoKart, Aero design etc. Every department has identified the forefront areas and available infrastructure is used optimally to obtain desired R & D outputs. Institute has received grants for various research projects from government and non-government agencies. Also, the institute regularly conducts workshops and Seminars on Intellectual Property Rights (IPR) and industry academia practices. The institute motivates faculties and students to publish their research work in reputed journals and conferences. Institute has also stated code of ethics to check malpractices and plagiarism in research. Institute created ecosystem for innovation with OrganicBots-AISSMSCOE incubation center for transfe of knowledge.

There is significant boost in the research publications in reputed national and international journals and conferences. Faculty members and students are motivated for research activities and encouraged to file patents. Institute has framed consultancy and testing policy to encourage faculty members for consultancy.

Institute promotes and supports students to participate various challenging technical and research activity/competitions to inculcate research component amongst them.

The Institute has collaborations with organizations of national and international repute, various industries which has resulted in opportunities for setting up of laboratories, industry-institute sponsored projects, research, consultancy, training and hands-on experience to students and faculties.

Infrastructure and Learning Resources

The physical facilities comprise of 38 classrooms, 74 laboratories, 8 seminar halls, exclusive Training and Placement (T & P) cell, ample space for outdoor & indoor sports activities, related academic and administrative rooms. Ramps and lifts are provided for physically disabled students.

Library comprises of 49377 books, 703 journals with 712 sq.m area. The Library is using commercial software SLIM 21 as well as open Source software such as Calibre and Dspace for automation of Library Services. NPTEL study material is available to students and faculty through local guru portal.

Institute has a very strong IT infrastructure and regularly updates, IT facilities in terms of hardware, software and firewall system as per need. The institute has massive network of 1055 computers with 50 Mbps internet connectivity to fulfill the academic and research need. Centralized firewall cyberoam is used for network monitoring, management and internet security. The institute has implemented enterprise resource planning (ERP) in order to make the system student centric and enhance learning.

History cards of the equipments are maintained, which indicate the maintenance/repair/calibration of the respective equipment. For maintenance of campus facilities, the institute has framed various committees such as Canteen and Campus, Gymkhana, Library, and Purchase committee. General civil maintenance and upkeep of civil infrastructure, landscaping is carried out by the Canteen and Campus committee. The institute has appointed external agencies for housekeeping and security of campus. Emergency exits and fire fighting system are provided to counter situations like fire hazard and natural calamities.

Student Support and Progression

Institute has effective and efficient system for overall development of students. It ensures development of students in academics, co-curricular and extra-curricular activities.

Institute has Guardian Faculty Member and Mentoring system, where for each class there is one GFM and for every 20 students a faculty acts as a mentor, till the student completes his/her program. Faculty mentor looks after mentees for overall development, academics, personal counselling.

Institute has effective system of informing students of various schemes of scholarships and freeships. Institute has various committees such as student grievance cell, anti ragging cell to address student grievances.

The teaching-learning process is enhanced by various activities such as Expert lectures, Industrial Visits, Workshops and seminars to provide exposure to students to real life practical aspects.

Students are made aware of various opportunities after graduation. Various training sessions are conducted for career guidance and entrepreneurship development.

Training and Placement Cell, Entrepreneurship Development Cell play vital role in conducting expert lectures, training sessions for students.

This endeavour results in 15 to 20% of students going higher studies and 50 to 60% of students are employed through in campus and off campus recruitment drives in every strata of Industry and 2 to 3% of the students become successful Entrepreneurs.

The Institute organizes various co-curricular and extracurricular activities in cultural and sports events which eventually help the students to showcase their talent. Our students have participated at University, national and international level.

Governance, Leadership and Management

AISSMSCOE has futuristically visualized vision and missions. It exhibits affordability of education with features viz. quality academics, infrastructure, research laboratories, industry-interaction, co-curricular and extra-curricular activities. The governance fosters participative management and plays significant role in the evolutionary reforms to elevate the Institute in preference of stakeholders. The culture of decentralized governance with well-defined inter-relationships is a preparation of platform for getting autonomy.

Meticulous strategic planning is executed for development of the institution. Well established process is implemented to excel in comprehensive development through transparency in academic governance. The established organizational structure executes smooth functioning of administrative and academic processes assisted with e-governance.

Faculty/staff get benefit of sponsorship for higher studies and other facilities. They are encouraged to attend/organize workshops, conferences, skill development programs, seminars, projects, consultancies and to publish research papers. Institute has well designed performance appraisal system for faculty and staff; reviews of the same are confirmed for fitness of promotion.

Zero based budgeting system is followed to make efficient and effective use of available financial resources. A scrupulous system ensures no major objections in internal/external audit. Deficit is managed through advances from society. Additional funds are secured through funding agencies for research, infrastructure and laboratories development.

Internal Quality Assurance Cell (IQAC) aims at continuous enhancement of quality in teaching-learning process. Decisions taken by IQAC are vehemently supported by Management. IQAC along with college administration gives suggestions based on stakeholder's feedback to improve teaching-learning process. External and internal academic and administrative audit is undertaken periodically to improve institutional activities.

Institutional Values and Best Practices

As a part of education, institute always focus on technical advancement with safety facilities like CCTV, fire extinguisher etc. Institute adopted eco-friendly practices as waste management, paperless and plastic free campus. For better utilization of natural resources solar and rain water harvesting system are deployed. Institute got locational advantage by which local community is benefitted in terms of techno-social aspects. As part of social responsibility institute always focused on extension activities such as gender equity, environmental consciousness, sustainability, moral and ethics. To inculcate universal values, among the students institute consistently celebrates national festivals.

To boost teaching and learning process institute has taken remarkable initiatives which provides technology-based innovative environment. For this institute endors "**One Faculty One Industry Drive**" to enhance association with industry for providing industrial exposure to the students and faculty through extensional activities. Also, institute library arranges various activities to strengthen knowledge, research culture and spread open access, e-resources awareness among students and faculties. Library gives "Best User Award" to students for maximum utilization of available resources in the library.

Institute engage technical, problem based activities for students to sharpen their technical competency and capabilities. "Talent by extreme Experiments" brings motivation in students towards practical based learning. SAE events like Aero designing-Garudashwa, Baja, Supra, Go-Kart etc. are the prime learning based activities by virtue of which our students are representing the institute and securing prominent position at national and international level. More profoundly said entrepreneurship, innovation and knowledge are interrelated, due to which institute cultivate students toward entrepreneurship.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING, PUNE
Address	AIl India Shri Shivaji Memorial Society College of Engineering, 1 Kennedy Road, Pune
City	Pune
State	Maharashtra
Pin	411001
Website	www.aissmscoe.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Dattatraya Shankar Bormane	020-26059562	9850282286	020-26058943	principal@aissmscoe.com
Professor	Daulappa Guranna Bhalke	020-26058342	9028299230	020-26058877	dgbhalke@aissmscoe.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

Date of establishment of the college	01-09-1992

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Maharashtra	Savitribai Phule Pune University	[View Document](#)

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	17-05-2017	[View Document](#)
12B of UGC	17-05-2017	[View Document](#)

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	27-05-2017	12	For Academic Year

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	National Institutional Ranking framework
Date of recognition	03-04-2017

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	AIl India Shri Shivaji Memorial Society College of Engineering, 1 Kennedy Road, Pune	Urban	18.71	19197

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Mechanical Engineering	48	Higher Secondary Certificate	English	60	59
UG	BE,Mechanical Engineering	48	Higher Secondary Certificate	English	120	116
UG	BE,Electrical Engineering	48	Higher Secondary Certificate	English	60	46
UG	BE,Electronics Engineering	48	Higher Secondary Certificate	English	60	50
UG	BE,Production Engineering	48	Higher Secondary Certificate	English	60	50
UG	BE,Chemical Engineering	48	Higher Secondary Education	English	60	50
UG	BE,Computer Engineering	48	Higher Education Certificate	English	120	118
UG	BE,Civil Engineering	48	Higher Secondary	English	120	114

				Certificate			
PG	ME,Mechanical Engineering	24	BE	English	18	9
PG	ME,Mechanical Engineering	24	BE	English	18	14
PG	ME,Electrical Engineering	24	BE	English	18	7
PG	ME,Electronics Engineering	24	BE	English	18	5
PG	ME,Chemical Engineering	24	BE	English	18	4
PG	ME,Computer Engineering	24	BE	English	18	6
PG	ME,Civil Engineering	24	BE	English	18	18
Doctoral (Ph.D)	PhD or DPhil,Chemical Engineering	36	ME	English	16	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				26				46				128
Recruited	8	2	0	10	7	3	0	10	71	36	0	107
Yet to Recruit				16				36				21
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				67
Recruited	0	0	0	0	0	0	0	0	26	41	0	67
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				81
Recruited	76	5	0	81
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				28
Recruited	27	1	0	28
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	7	2	0	7	3	0	5	2	0	26
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	64	32	0	96

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	0	0	0	2	0	3
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	27	38	0	65

Part Time Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	3	1	0	4

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0
UG	Male	479	4	0	0	483
	Female	151	4	0	0	155
	Others	0	0	0	0	0
PG	Male	34	3	0	0	37
	Female	23	3	0	0	26
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	46	51	48	51
	Female	18	18	19	19
	Others	0	0	0	0
ST	Male	5	13	12	11
	Female	3	1	3	2
	Others	0	0	0	0
OBC	Male	101	114	141	110
	Female	37	41	41	43
	Others	0	0	0	0
General	Male	184	192	202	219
	Female	67	63	78	74
	Others	0	0	0	0
Others	Male	52	55	56	56
	Female	16	26	15	15
	Others	0	0	0	0
Total		529	574	615	600

31-07-2018 01:30:37

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response : 407

Number of self-financed Programs offered by college

Response : 16

Number of new programmes introduced in the college during the last five years

Response : 3

3.2 Students

Number of students year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3042	3307	3072	2745	2378

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
302	316	315	302	267

Number of outgoing / final year students year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
686	725	512	492	513

Total number of outgoing / final year students

Response : 2928

3.3 Teachers

Number of teachers year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
211	202	179	177	175

Number of full time teachers year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
200	196	179	169	175

Number of sanctioned posts year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
200	196	184	169	183

Total experience of full-time teachers

Response : 2890

Number of teachers recognized as guides during the last five years

Response : 05

Number of full time teachers worked in the institution during the last 5 years

Response : 368

3.4 Institution

Total number of classrooms and seminar halls

Response : 46

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
1052.76	865.49	886.20	674.81	481.89

Number of computers

Response : 1055

Unit cost of education including the salary component(INR in Lakhs)

Response : 0.98

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 0.35

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The AISSMS College of Engineering is affiliated to the Savitribai Phule Pune University (SPPU) and approved by AICTE. It conducts eight UG, seven PG and one Research program in engineering. The Institute follows the curriculum approved by SPPU. Our faculty members participate at various bodies of the university such as Academic Council, Board of Studies (BOS), and subject chairmen who contribute in framing of syllabus regularly.

Institute has constituted an Academic Committee (AC) comprising of Principal, Heads of the Department (HODs), Institute Academic Coordinator (IAC) and Department Academic Co-ordinators (DAC) which is responsible for planning and monitoring of overall academic activities and its functioning.

Principal receives inputs from IQAC, Academic committee and Department Advisory Board (DAB). Based on these inputs Co-curricular and extra-curricular activities are planned in academic calendar. Each department prepares their academic calendar in line with the institute academic calendar.

Principal conducts a common meeting with all teaching and non teaching staff before commencement of every semester. Students are made aware of commencement of semester through common notice and SMS through ERP system.

As per the prescribed syllabus of the University, HOD allocates the teaching load to faculty members who prepare their course plan in-line with the departmental academic calendar. Individual faculty uploads unit-wise course plan in ERP before commencement of semester. The detailed course file with CO-PO-PSO mapping is prepared by each faculty member. Schedule of internal, external and project examinations are displayed on notice board from time to time.

Institute has adopted innovative and creative teaching learning process, tools and techniques by implementing advanced concept of pedagogy, use of ICT, learning management system, student centric methods, participative learning etc. for enhancing teaching and learning experience.

The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, mini projects, in-house and industry supported projects, industry visits, industrial internships, hands-on-sessions, tutorials, case studies, e-learning, NPTEL lectures, MOODLE, knowledge wall, technical quiz, assignments, internal-tests etc. Contents beyond curriculum are identified and taught both in the classroom and in the laboratory to expose students to recent trends in the industry. Institute has taken initiative to provide soft skill training, value added courses and counseling for holistic development of students.

IAC ensures the progress of syllabus coverage every fortnight. Defaulters list is displayed every fortnight

and schedule for make-up classes are prepared and executed. SMS are sent to the parents of defaulter students through ERP. Students' feedback is taken twice in semester through ERP system. Continuous assessment for Practical, Term work, Projects, Seminars, internal examination, assignment evaluation is being continuously monitored by AC. Academic audit is the part of the teaching learning process which is reviewed by the academic committee.

Institute has its own stakeholder's feedback policy in place. Inputs taken from various stakeholders are summarized and recommendations are communicated to the BOS for curriculum revision.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 5

1.1.2.1 **Number of certificate/diploma programs introduced year-wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
3	0	1	1	0

File Description	Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 2.18

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
02	01	00	00	01

File Description	Document
Details of participation of teachers in various bodies	[View Document](#)
Any additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 76.9

1.2.1.1 How many new courses are introduced within the last five years

Response: 313

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Details of the new courses introduced	[View Document](#)
Any additional information	[View Document](#)

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 93.75

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 15

File Description	Document
Name of the programs in which CBCS is implemented	[View Document](#)
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Any additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 21.16

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1000	1000	1000	180	85

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

The current curriculum of the affiliating university has forty five courses which address Gender, Environment and Sustainability, Human Values and Professional Ethics related issues across the various programs offered (e.g. humanities and social sciences, environmental engineering, air pollution and control, disaster management, industrial management and entrepreneurship, soft skills, energy audit management, human rights etc.)

The Institute has established a National Social Service (NSS) unit under the SPPU. NSS organizes activities related to Environment and Sustainability like Swachha Bharat Abhiyan, Tree Plantation, Plastic Kachra Mukta Abhiyan, Disaster management Training. Blood Donation Camps are organized under human value activities**.** Guest lectures are also arranged on cross cutting issues like human rights and health related issues. Professional ethics are imbibed amongst students by encouraging them to participate in the professional activities like seminars, conferences, workshops, tech fests. Since last twelve years, an annual National level Students Symposium AISSMS Engineering Today (AISSMS ET) is organized by the students for the students. Forty different events are being conducted each year under this activity. Students' Chapters of several professional organizations such as Institution of Engineers [IE (I)], Computer Society of India (CSI), Indian Concrete Institute (ICI), Society of Automotive Engineers (SAE), Indian Institution of Chemical Engineers (IICHE), Institution of Mechanical Engineers (IMechE) and technical clubs like "Drone" and "Robotics" have been established to enhance technical and social awareness among students. The Institute has active Entrepreneurship Development Cell (EDC) which nurtures the spirit of entrepreneurship. These activities encompass components for employability, research and social needs amongst students.

File Description	Document
Any Additional Information	[View Document](#)
Link for Additional Information	[View Document](#)

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 24

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 24

File Description	Document
Details of the value-added courses imparting transferable and life skills	[View Document](#)
Brochure or any other document relating to value added courses.	[View Document](#)
Any additional information	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 18.01

1.3.3.1 Number of students undertaking field projects or internships

Response: 548

File Description	Document
List of students enrolled	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and 5)Parents for design and review of syllabus-Semester wise/ year-wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Any additional information	[View Document](#)
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	[View Document](#)
URL for stakeholder feedback report	[View Document](#)

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	[View Document](#)
URL for feedback report	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 3.66

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
96	62	75	141	135

File Description	Document
List of students (other states and countries)	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 93.39

2.1.2.1 Number of students admitted year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
661	723	781	751	662

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
786	786	786	786	690

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 97.21

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
278	316	315	302	251

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

The students are tracked during their academic journey in the Institute and special efforts are made to enhance the performance of slow learners. Students with good academic background and skills are guided to higher levels of achievements and encouraged towards challenging goals.

Before the commencement of the classes, Institute hosts Induction program for the freshers. On behalf of management Honorable Secretary/Joint Secretary and Principal of institute address the freshers and the parents, which covers the introduction of AISSM Society and AISSMS College of Engineering. Principal further elaborates academic facilities like library, laboratories, computer center, gymkhana and cultural activities. Head of First Year Engineering details out academic calendar, rules and regulations of University and examination pattern. Parents are informed about placements and career opportunities by Training and Placement Officer. During admission process the Institute collects fresher students' data through a comprehensive questionnaire. This data helps to know the student's academic and family background, skills learnt in school/junior college, the hobbies/interest in various fields. It portraits students' profile and analysis of the data helps to evaluate the learning level of each student.

To identify the students as advanced learner or slow learner, available data of merit marks is shared with the team of FE Guardian Faculty Members (GFM) and Mentors. The GFMs/Mentors, in regular meetings with all faculties of respective classes, carry out discussions based on analysis records available about students' learning levels, abilities, characteristics, skills, attitudes, examination results (internal and external) and their current day to day interactions/experiences. Based on this evaluation special activities are undertaken as per need.

This data analysis is referred by GFMs/Mentors of FE classes and passed on subsequently to GFMs/Mentors of next term. For higher classes individual departments carry out activities for advanced and slow learners.

Activities for Advanced learners :

- Encouragement to complete NPTEL/Advanced courses
- Additional Library facilities
- Participation in incubation center
- Induction in Clubs like Robotics, Drone etc.
- Application of research papers in projects.
- Participation in Seminars/Conferences/IIT events
- Paper publication and presentation
- Workshop/Seminar on current trends
- Model making/building
- Motivation and guidance for higher studies (competitive exams)
- Industrial visits and Industry sponsored/research project
- Patent filing process
- In house mini-projects
- Project competition like National Design Research Forum of IE(I)
- State Government sponsored Inter-University Research Project Competition-Avishkar
- Student Chapters
- Industrial training
- Case study/group discussion/simulation on advanced topics

Students are involved in the research projects awarded to the institute by various funding agencies like University, IE(I), etc.

Activities for Slow learners :

- Remedial / Make-up classes/ Extra lectures
- Personal Attention in teaching
- Re-test for improvement
- Extra practical sessions
- Counseling – special hints and techniques
- Special notes
- Assignments and solving University question papers
- Question bank
- Guidance for Seminar/Project presentation
- Mock oral/practical examination
- Tutorials

Institute has made special provision of exhaustive soft skills training and exclusive counseling to mould the slow and advanced learners to plan their career and placements.

File Description	Document
Any additional information	[View Document](#)

2.2.2 Student - Full time teacher ratio

Response: 15.21

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.26

2.2.3.1 Number of differently abled students on rolls

Response: 8

File Description	Document
List of students(differently abled)	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any other document submitted by the Institution to a Government agency giving this information	[View Document](#)
Any additional information	[View Document](#)

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Faculties are shifting the focus over last few years, to a student centric learning process, in place of conventional teaching-learning process of transferring the knowledge to students, through classroom lectures. The focus is on knowledge transfer and learning through students' active participation and involvement. The faculty provides a platform to students to explore independently, learn through self study and from their peers, guides them to develop effective and lifelong skills.

The following latest teaching and learning methodologies are used to motivate students to learn for higher retention of knowledge through better understanding, for increased depth and developing positive attitude towards subjects taught :

1) Active learning:

The faculty adopt active learning by involving students in the learning process more directly through following activities;

- Brain storming, quiz, debate, group discussions, role play, games, model making, mini projects, presentations, essay, elocutions, case studies and simulations on technical content.
- Animated PPTs for some topics.
- Live learning experiences.
- Open ended problems requiring critical/creative thinking for promising students.
- Multiple pauses during lectures, brief demonstrations.

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

3) Inquiry-based Learning: Students are encouraged to search and make use of resources beyond the classroom for investigation of open questions/problems, developing their critical thinking and increasing understanding levels by performing review of research papers, surveys, etc.

4) Cooperative Learning: The faculty also focuses on cooperative learning methodologies. Students work together to maximize their own and each other's learning in student chapters and also while performing various activities using think-pair-share, round table techniques, etc.

5) Problem based Learning: In projects/competitions, participating students are assigned different tasks, assignments, portfolios, activities in which students engage in complex, challenging problems and collaboratively work toward their solutions by using inter-disciplinary knowledge e.g. Design of Resonance racing vehicles(BAJA,SUPRA,EFFI-cycle, Go-kart) , Aero design (Garudashwa) , Design and implementation of Software/Apps, Design and building Robots/ Drone, etc.

6) 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.

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

8) Project based learning: After completion of some topics from syllabus, students work on application of theory learned through projects/model building/simulation in the form of design and fabrication of some systems. It helps to bridge the gap between theoretical concepts and its practical applications.

File Description	Document
Any additional information	[View Document](#)

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems

(LMS), E-learning resources etc.

Response: 74.5

2.3.2.1 Number of teachers using ICT

Response: 149

File Description	Document
List of teachers (using ICT for teaching)	[View Document](#)
Any additional information	[View Document](#)
Provide link for webpage describing the " LMS/ Academic management system"	[View Document](#)

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 16.71

2.3.3.1 Number of mentors

Response: 182

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	[View Document](#)
Any additional information	[View Document](#)

2.3.4 Innovation and creativity in teaching-learning

Response:

The traditional chalk & talk method of teaching-learning is now becoming monotonous to the current tech-savvy and agile generation. Hence it is need of the hour to bring innovations in the teaching-learning process to make it more attractive to students. Teachers are realizing these changes in the cognition process of students and are innovating various tools and techniques in teaching-learning process to deliver the contents/ knowledge so that students actively participate in it and grasp the ideas quickly.

Faculty are attending various Faculty development programs for domain knowledge and for new trends in education technology/pedagogy which make their teaching more innovative. Faculty presentations in departments enhance peer learning of teachers. Following are the various tools and techniques used by faculty and institute to make teaching more innovative:

1) ICT based teaching-learning (Moodle, etc)

2) Digital social learning platforms (WhatsApp, blogs, etc)

3) Physical social learning platform   (Student chapters of IE(I), etc)

4) Technical social program

5) Exposure of faculty to industry

      - Industrial Training for faculty

      - Interaction of faculty with company guide of student during full semester internship

      - Sponsored projects

      - Faculty industry visits

6) Proactive teaching methods (group discussions, role play, games in class like mime, treasure hunt, mimicry, etc.)

7) Project based teaching-learning

      The teaching-learning process can be made more novel/attractive to students, if it triggers their innovative instinct and inspires them to find a creative solution to complex problems. The subject knowledge should lead them to use the learning for new concept and applications and thereby create an environment of problem solving, new designing and critical in- depth thinking. The raw ideas generating from students may initially appear as primitive. These ideas need to be bloomed, matured, collected and experimented on appropriate platforms, so these can be refined into more fruitful end products and feasible applications. Keeping this in mind, the institute has provided different opportunities like;

1) Projects :

- Research oriented projects (State Government sponsored Inter-University Research Project Competition-Avishkar)
- Sponsored projects
- Mini projects

2) Industry- Institute Interaction:

- Industry Institute meets
- MOUs
- Industrial visits
- Field work
- Departmental Advisory Board

3) New product design :

- Supra, BAJA, Garudashwa
- Entrepreneur Cell
- Standard operating procedure for product manufacturing
- Incubation Center

4) Competitions :

- organizing National level Technical Symposium- AISSMS Engineering Today
- participation in different technical events

5) Talks :

- Motivational Talks (Forum for Science and Technology)
- Expert lectures

6) Membership of Professional Bodies :

- IE(I), CSI, etc
- TRIZ association of Asia

7) Visits /Participation :

- Conferences/ Exhibitions
- Seminars/Workshops

All above innovations and creativity in teaching learning process lead to improve not only the academic performance of the students but also their communication, human relations, technical and management skills which makes them industry ready. This is endorsed by acquiring ranking in the University merit list, winning medals, enrolling for higher education, final placements after internship and on/off campus placement.

File Description	Document
Any additional information	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 98.58

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	[View Document](#)
List of the faculty members authenticated by the Head of HEI	[View Document](#)
Any additional information	[View Document](#)

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 9.22

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
24	24	15	17	6

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	[View Document]()
Any additional information	[View Document]()

2.4.3 Teaching experience per full time teacher in number of years

Response: 14.45

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	[View Document]()
Any additional information	[View Document]()

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 10.88

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
9	2	1	8	0

File Description	Document
Institutional data in prescribed format	[View Document]()
e-copies of award letters (scanned or soft copy)	[View Document]()

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 12.42

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
25	28	22	21	20

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

Institute's primary focus, as stated in its mission statement, is on strengthening teaching learning process through rigorous assessment and evaluation. Institute closely follows all the reforms introduced by SPPU. SPPU envisages the need for radical reforms in traditional examination and assessment system by evolving a credible, effective and transparent evaluation system that responds confidently to the challenges and newer demands of a knowledge society. The syllabus and evaluation scheme are revised by SPPU periodically to meet global standards and update students to latest trends in technology. Institute made reforms in CIE, according to the reforms made by SPPU.

In revised syllabus from 2012, University introduced online examinations for FE, SE and midterm examinations for TE and BE students. While implementing this pattern, certain limitations were surfaced such as final evaluation for course was based on total marks of online and endsem examination without considering independent passing. Hence in 2014 university revised evaluation scheme independent passing is mandatory for both examinations. In 2015 pattern of revised syllabus, credit based evaluation was introduced as per directives given by UGC.

Institute has consistent practice to conduct class tests, assignments, tutorials which are part of formative assessment. From 2017, internal assessment system is revived by introducing mid-term and end-term examination. Retests are conducted from year 2017 for performance improvement and confidence building, to give an opportunity to non-performing students.

Term work marks are allotted by maintaining Continuous Assessment Sheet (CAS) by each teacher to evaluate performance of students during practical sessions. In academic year 2012, the assessment was

based on understanding, performance, timely submission, each parameter for max 10 marks which were integral part of Academic Performance Record (APR). The CAS was revised in year 2014-15 and was maintained online on Google sheets. From year 2015, the CAS is available on ERP for better governance. In year 2017, CAS is again revised and though each experiment is assessed for 10 marks, the performance parameters are altered.

Project progress is monitored periodically in both the semesters by departmental committees specially constituted for this purpose.

Mock practical examinations are conducted to give beforehand experience of university practical examination to students. Makeup classes are introduced from year 2017 for students who could not attain the required attendance for medical or other valid grounds, in view of bringing these students academically at same level as that of regular students. This also enhances self-learning ability of students.

The following reforms of SPPU are incorporated in internal assessment of PG courses.

- In ME 2013 Pattern 50 marks internal assessment and external assessment of 50 marks.
- End Semester exam papers are set and assessed at institute only for electives.
- Choice based credit system

Institute has adapted various assessment tools for multidimensional development of students such as presentations by students on advanced topics, Group Discussions, Quiz, Case study which enrich their independent learning, communication skills, behavioral aspects etc. Institute has introduced Moodle system for better reach and performance enhancement.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Institute follows SPPU's guidelines for the internal assessment of the theory and laboratory. In addition to that institute has carefully designed and implemented the parallel mechanism to ensure preparedness of the students. Complete transparency is maintained in all forms of internal evaluations. Two internal examinations, namely Mid-term and End-term in each semester are planned in academic calendar and executed as per schedule. After assessment, answer sheets are distributed and discussed with students for their benefit and to maintain transparency in the evaluation. Retest is planned for students having unsatisfactory performance by giving them sufficient time for preparation. Examination results are displayed on notice boards and ERP. Overall performance, attendance, feedback about the student is communicated to parents by mentor faculty. These reforms for internal assessment are implemented from current academic year. Prior, two internal tests and two assignments were conducted during the term and students were assessed based on their performance. It was observed that this bi-semester internal

evaluation improves overall performance of students. Regular study habits are inculcated in the students.

Term work (TW) assessment

Various assessment parameters, their evaluation process and criteria are discussed by each course teacher with students at the beginning of every term. Performance of each student for practical sessions is recorded weekly in CAS in front of student. TW of a student,which carries 40% weightage in final university result, is evaluated based on performance in CAS. Weekly continuous assessment ensures the regularity and indulge students to participate proactively. During practical sessions, course teacher discusses significance, advancements and applications of the contents. Teacher identifies advance learners and give them challenges on selected topics. Concurrently teachers make an attempt to identify slow learners and help them. TW marks are displayed on notice boards.

Apart from class tests and CAS, a wide variety of evaluation tools are introduced by institute for assessment and evaluation of performance of student. Depending upon suitability, one or more tools such as Presentations by students, Open book test, MCQ, Assignment, Tutorial, Group Discussions, Case study etc are used for every course in the semester.

Project work assessment

Twice in semester presentations are arranged to review progress of project work and evaluation sheets are maintained. These reviews forces student to be on toes and complete work in defined time. Thisenables student to remain focused, confident, improve presentation skills and communication skills.Project exhibitions are arranged for BE students to display their work at the end of year.

Internal and External Assessment for PG students:

Assessment of PG students is rigorous. It consists of Continuous assessment (CA) and End-semester Examination. The CA towards 50% marks is a continuous activity and at least two written tests are conducted for a full course of 4/5 credits and the teacher should select at least one evaluation method such as, Written Test, Term Paper, Journal/Lecture/Library notes, Seminar presentation, Short Quizzes, Assignments, An Open Book Test, Mini Research Project.

File Description	Document
Any additional information	[View Document](#)

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

Acknowledging that the students are the main stakeholders in any educational institution, a mechanism is devised by SPPU and institute to bring in complete transparency in the evaluation and to provide the

platform for redressal of their grievances pertaining to examinations and internal evaluation.

The institute has adopted fair and transparent process for the evaluation of student prescribed by the affiliating university. The evaluation process comprises mainly two components, the formative assessment and the summative assessment. There is well defined mechanism for the grievance redressal related to the formative assessment by institute and for grievances relating to the summative assessment by SPPU.

To address all examination and evaluation related problems, Institute has appointed College examination officer (CEO) as per the directives of SPPU. An aggrieved student makes an application to CEO and he addresses it as per the stipulated norms of SPPU. CEO categorizes it either as grievance related to formative or summative/external assessment.

In case of formative assessment related grievance, College examination officer forwards it to the respective department. Whenever the grievance is reported regarding the internal evaluation, the concerned HoD along with the concerned subject teacher shows the carefully maintained CAS record to the aggrieved student and tries to resolve the grievance. The enquiries regarding the Class test/ mock practical examination or project progress evaluation are addressed by the individual subject teachers.

Redressal of Grievance for External Assessment:

Online examinations:

During on line examination, if any student finds ambiguity in question, eg. given options are not correct, data given in question is insufficient or options are repeated, students may report it as invalid question. Committee at university takes cognizance and validates the grievance.

Theory examination:

To deal with the grievances relating to the summative assessment, SPPU invites online application for the photocopy of the assessed answer-books. Students apply for photocopies of answer sheets. After receiving photocopies, if student is not satisfied about its assessment, he/she may apply either for rechecking or revaluation. The application is forwarded to SPPU for corrective action. In case of revaluation, university reappoints examiner and the answer sheet are reevaluated. The result is communicated to Institute and to the student. In case of criticality, the CEO provides the necessary assistance to the aggrieved student.

College has a autonomous course of Production Sandwich Engineering. Though the appointment of examiners is done at institute level, the entire assessment mechanism is similar to SPPU. For grievance redressal, similar mechanism defined by SPPU is practiced at Institute level.

File Description	Document
Any additional information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

Institute is affiliated to SPPU and follows academic calendar of SPPU. Before commencement of each semester institute prepares its own academic calendar in-line with university academic calendar. Based on Institute's academic calendar, department prepares its academic calendar showcasing events planned by individual department.

It has a standard procedure to plan and develop curricular, co-curricular and extra-curricular activities.

Dates proposed by university for commencement and conclusion of semester, in-semester, end-semester, online examination are reflected in institute's calendar and strictly followed.

University schedules TW/ Practical /Oral examinations and appoints external examiner. Usually, practical examination period is of 3 weeks, planned by university. This schedule is sternly followed by institute.

Academic Development Committee (ADC) and Department Academic Committee (DAC) discuss and plan various academic, co-curricular, extra-curricular and social activities in accordance with university calendar. All these activities are included in academic calendar of institute.

Technical events like Engineering Today (ET) - Technical symposium at National level, expert lectures, science exhibition, cultural activities like Shivanjali, sport events like Shahu Karandak and Ashwamedh are planned before start of term. This advance planning makes teaching plan robust. Social activities such as NSS activities are planned as per academic calendar of SPPU which are followed by institute.

All departments prepare their academic calendar in accordance with Institute academic calendar. Various activities such as industrial visit, expert lecture, seminars/ workshops/ conferences, department social programs etc are included in department academic calendar.

Teaching plan is prepared by each teacher which adheres to the academic calendar of institute. Department Academic Committee(DAC) has standard procedure of fortnight monitoring that ensures smooth conduction of lectures and practical sessions. Attendance of student is daily observed and absences of student is communicated to parents via SMS regularly.Cumulative attendance and Defaulter student lists are displayed every fortnight as per the procedure.The students having attendance less than 75%, have to attend the make-up classes of respective subjects.

Status of syllabus completion, defaulter students is reviewed by Guardian Faculty Member (GFM) periodically in GFM meeting.

CAS is weekly maintained by individual subject teacher as per the teaching plan of practical sessions.

Internal examinations are conducted by all the departments on the dates planned in academic calendar. Results of internal assessment are declared and communicated to students within a scheduled time.

Every department conducts project progress review and seminar presentations as per standard procedure set by each department according to academic calendar of department. This is the part of internal evaluation.

For sandwich programs, students undergo industrial implant training for one semester, once in TE and once in BE. Their periodic reviews are planned and effected according to department calendar.

Mock practical examinations are planned in the department academic calendar at the end of each term and conducted according. Thus, it's observed that institute adheres to academic calendar for conduct of CIE and all other activities during the semester.

File Description	Document
Any additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

Institute has well defined Program outcomes (PO), program specific outcomes (PSO) and course outcomes (CO) for all programs.

Teachers are conversant with POs, PSOs of the programs as they are involved in PO PSO formation process. Vision and mission of the college is discussed in meetings. Head of the department and teachers discuss POs and frame PSOs of the programs which are in line with Graduate Attributes and Vision, Mission of the Institute.

POs and PSOs are displayed for teachers and students at following locations:

· 	Institute web site

· 	HOD cabins

· 	Notice Boards

· 	Department laboratories

· 	Department Library

Principal delivers address to all newly admitted first year students and their parents in the induction program. During this address institute vision, mission and program objectives are stated.

Every course teacher discusses expected course outcomes with students at the beginning of each semester.

POs, PSOs and COs are mandatory part of course file prepared by course teacher.

These are attached in course journals of each student.

File Description	Document
COs for all courses (exemplars from Glossary)	[View Document](#)
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The PSOs, POs and COs are designed using **top-down** approach. The PSOs are in tune with the expectation of the professional bodies and the society. The program outcomes are carefully fixed studying the graduate attributes and blending those appropriately to suit the program being offered. To meet these program outcomes, the curriculum is designed by SPPU. While designing curriculum feedback from stack holders is incorporated. Each course has specific measurable course outcomes. Each course has 6 units and in general each unit relates to a specific course outcome. Each course outcome is mapped with the Program outcomes, and program specific objectives. While calculating the attainment level **bottom to top** approach is used. For each course, attainment level of all course outcomes is arrived at rigorously based on the student performance in the internal and external examinations. Similarly, the feedback at the end of course is taken to assess the course outcome indirectly. Thus, the CO attainment is a combine result of direct and indirect assessment. This in turn helps in arriving at the PO assessment as each CO is mapped with certain POs and PSOs. Besides this, the exit survey is taken from students for indirect assessment of the PO's. The alumni and employer surveys are taken for indirect assessment of the PSOs. The entire process of attainment of learning outcomes is shown in figure 1.

CO attainment:

[Direct Attainment of CO = 30% of CO attainment in internal examination + 70 % of CO attainment in the external examination.](#)

- Overall attainment of CO = 85% CO attainment from Direct method + 15 % of CO attainment through Indirect method

$CO_{dir} = 0.3\ CO_{int} + 0.7\ CO_{ext}$

Overall attainment of CO = 85% CO_{dir} + 15 % CO_{indir}

COs are mapped with PO and PSO as shown in table 1.

PO and PSO attainment:

The direct attainment of PO and PSO is obtained by taking into consideration contribution of each course as shown in Program attainment matrix described in table 2.

- Direct Attainment of PO =   Average of attainments of all CO contributing to the specific PO.
- Overall attainment of PO =   85% attainment through the direct method + 15 % of PO attainment through indirect method.

Overall attainment of PO = 85% POdir + 15 % POindir

File Description	Document
Any additional information	View Document

2.6.3 Average pass percentage of Students

Response: 91.59

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 686

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 749

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.75

File Description	Document
Database of all currently enrolled students	View Document
Any additional information	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 127.76

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
72.61	10.46	32.29	5.80	6.60

File Description	Document
List of project and grant details	[View Document]()
e-copies of the grant award letters for research projects sponsored by non-government	[View Document]()
Any additional information	[View Document]()

3.1.2 Percentage of teachers recognised as research guides at present

Response: 2

3.1.2.1 Number of teachers recognised as research guides

Response: 04

File Description	Document
Institutional data in prescribed format	[View Document]()
Any additional information	[View Document]()

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 1.18

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 87

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Institute has taken following initiative to create an ecosystem for innovations including incubation centre and various student clubs for creation and transfer of knowledge.

Incubation centre:

Institute has created an ecosystem for innovation with OrganicBots and signed the memorandum of understanding with OrganicBots, North Carolina, USA.

Main objectives of incubation centre :

- OrganicBots will provide its **core framework (OrganicBots Intellectual Property)** to select, nurture, mentor AISSMSCOE faculties and students to form small student lead teams known as Campus Companies.
- OrganicBots will provide AISSMSCOE hosted incubator access to Industry expertise needed to support incubator.
- OrganicBots will provide backlog of ideas to kick-start the Incubators in initial formative years.
- OrganicBots will optionally facilitate cross-incubator collaboration i.e. AISSMSCOE hosted incubator partnered with another OrganicBots incubator within India or other geography.
- OrganicBots will provide essential bootstrapping of AISSMSCOE faculties & campus-companies for running the idea factory in incubator. Courses will be combination of self-study courses curated from other internet sources of repute along with OrganicBots specific knowledge check quizzes or activities
- **Patents:** OrganicBots will co-own the patents for any specific idea that is work patent.
- OrganicBots will execute in good faith and best put efforts in creating new and better jobs opportunities using skills created via Incubator.

Activity Conducted:

Online (aptitude test) examination was conducted for 1070 students out of which 103 students are shortlisted for second round. Second round is in process.

Other Initiatives :

The institute consistently provides motivation, support and platform for students to showcase their skills and knowledge in various competitive technical events.

In addition to Incubation centre, the institute takes special efforts for transfer of knowledge through various technical activities such as SUPRA, BAJA, GoKart, Effi-Cycle, Garudashwa (Aero design team), ROBO club, DRONE club, film club etc. The institute provides support in terms of financial, academic, infrastructural facilities, human resources required and timely administrative decisions to enable students and staffs for participating in the various technical activities.

The students in the institute are participating in various technical competitions at national and international levels. For preparation of the competition, special facilities like internet, library, required infrastructure in terms of space, equipment and support facilities have been provided 24 x 7. The institute has done collaborations with other agencies/ institutions/research bodies for sharing research facilities which facilitate the students for their preparation. Appreciation letters are given to the students and faculties for their achievements. Concession is also given to the students in the academic in the form of leaves for attending the events. The professional counselling is also available in the institute to improve the moral level of the students.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 39

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	12	09	04	04

File Description	Document
Report of the event	[View Document](#)
List of workshops/seminars during the last 5 years	[View Document](#)
Any additional information	[View Document](#)

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	[View Document]()
Any additional information	[View Document]()

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
List of Awardees and Award details	[View Document]()
e- copies of the letters of awards	[View Document]()
Any additional information	[View Document]()

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 1.6

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 8

File Description	Document
URL to the research page on HEI web site	[View Document]()
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	[View Document]()
Any additional information	[View Document]()

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 1

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
59	32	37	25	30

File Description	Document
List of research papers by title, author, department, name and year of publication	[View Document]
Any additional information	[View Document]

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 1.78

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
74	100	66	59	28

File Description	Document
List books and chapters in edited volumes / books published	[View Document]
Any additional information	[View Document]

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

In line with institutes vision and mission, institute is very insightful to the impact of various extension activities on its students, employees, as well as on the regional community and on the environment. The institute believes in giving back what it has gained from the communities in which we live, work and play. The institute consider the impact of all extension activities on the local community and hence the various social and technical activities, events and programmes are very much reflects our commitment to operate in a techno-social responsible manner. We aim to pursue our goals as one, keeping agreement with planet and society.   The institute facilitates the student in various social and technical activities. Institute has

conducted various social and technical activities for sensitising and motivating the students to social issues and their holistic development so far. Social activities includes **Jagruti, Organ Donation Rally, Blood Donation Camp, Swachha Bharat Abhiyan, Cashless Economy Workshop, Green Campus, Tree Plantation, Traffic Rule Awareness Rally and Pledge, Road Safety Awareness Program, Voter Awareness Camp** through NSS cell.

Similarly, to enhance the technical knowledge of students, institute provides and permits the students to participate in the various national and international technical events and competitions such as **BAJA, Supra, Efficycle, Go-Kart, Garudashwa, Aeromodeling** etc. Institute provides financial assistance to these activities. Various industries such as Volkswagen, Cummins India, S. R. Industries, Rednica Cables, WegElctric, Eagle products etc. also provides financial support to the said activities. To strengthen the technical knowledge of students, technical symposium (Mega National Technical Event Engineering Today) is organised by the institute every year on the eve of Engineers day from last twelve years. Institute supports Engineering Today financialy and is also sponsored by various agencies/industry such as Bank of Baroda, Sakal Times, Krushiwal etc. Around 1000 students participates in more than 40 events every year. To create the interest in the field of science and technology among school students, science exhibition is also organised by the students every year as a part of Engineering Today.

Various student chapters under various professional bodies were formed for the students at departmental levels. Students actively participate and organise various events through these chapters as per the departmental needs and requirements for overall development of students.

Technical activity enhances the technical knowledge of student in the field of design, analysis, manufacturing and testing of different engineering systems. Through these activities student improve their qualities such as time management, project management, costing, marketing skills, event management, communication skill etc. Similarly social activities enhance and create social awareness and responsibilities in the students. As a result of these involvement in technical activities, institute ranked in various national and international competitions. Also, one student won the cash prize of Rs. 1 Crore as a result of cashless economy workshop.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 37

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
25	5	2	1	4

File Description	Document
Number of awards for extension activities in last 5 years	[View Document](#)
e-copy of the award letters	[View Document](#)
Any additional information	[View Document](#)

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 100

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
35	36	23	04	02

File Description	Document
Reports of the event organized	[View Document](#)
Number of extension and outreach programs conducted with industry,community etc for the last five years	[View Document](#)
Any additional information	[View Document](#)

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 46.5

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2115	2513	2565	53	37

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document
Any additional information	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 978

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
191	200	228	140	219

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 15

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2016-17	2015-16	2014-15	2013-14	2012-13
14	0	00	1	0

File Description	Document
Details of functional MoUs with institutions of national, international importance,other universities etc. during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The institution has obligatory infrastructure required for effective teaching-learning process, co-curricular and extra-curricular activities. The infrastructure has adequate facilities to fulfill the norm laid by the AICTE, DTE, SPPU. The available facilities are enhanced by addressing the needs of students and faculties to support Research and Development activities in college campus. The facilities of audio-video and ICT tools helps to strengthen the infrastructure of the institute.

The physical infrastructure consists of 38 classrooms, 9 tutorial rooms, 74 laboratories and 8 seminar halls. Moreover, the institute has supporting academic and administrative rooms for undergraduate and postgraduate programs. Classrooms and seminar halls have LCD projector, Internet connectivity, Digital smart board, well finished furniture, ventilation, and luminance. Each Department has seminar hall to conduct different activities such as seminars, STTPs, etc. and well equipped laboratories as per norms. Laboratories are regularly maintained and updated.

The Charts and models are displayed in the laboratories for better understanding of theory and practical concepts. Laboratories are equipped with state of the art machines/equipments like Chassis Dynamometer, Universal testing machine, Spectrum analyzer, Vector analyzer, High Performance Liquid Chromatography analyzer, Fast Fourier Transform analyzer, Programmable Logic Controller Supervisory Control and Data Acquisition etc. Laboratories consists of open source and latest proprietary software such as like MatLab, ANSYS, AUTOCAD, Stadpro, etc.

The institute has central Research laboratory with an Environmental discovery system (EDS), which is sponsored by VESBE under Indo-German collaboration for waste water treatment and water purification process.

The workshop consists of different facilities for mechanical based practicals like machine , fitting, carpentry, welding, black smithy and tin smithy shops.

For Internet access and computing purpose, the institute has massive network of 1055 computers with 50 Mbps band width. Centralized firewall Cyber-roam is used to monitor the usage of Internet by individuals. All computers are connected by LAN and Internet. Some computer laboratories are equipped with high end servers and computers with high end processors. The institute also provide central computing facilities to promote R&D activities.

Enterprise resource planning (ERP) is deployed for effective academic planning and monitoring. Library has compilation of books, journals, web based resources, audio/video materials, etc with latest software for efficient functioning with 300 seating capacity. The Library is using commercial software SLIM 21 for automation of Library Services and also has Open Source software such as Calibre and Dspace to maintain digital contents.

Exclusively, Training and Placement (T & P) cell provides adequate infrastructure for training, placement and co-curricular activities. It has separate seminar hall to carry out different activities of T&P such as seminars, Interviews, Soft Skill training and Workshops etc.

For the physically impaired (Divyangjan) students, institute provides Ramps and elevator and other facilities. For identifying malicious activities in campus, the Electronic surveillance system has been installed. It helps to identify the theft in campus which provide security to staff and faculties. seperate housekeeping and security agencies have been appointed for security and cleanliness of Institute.

File Description	Document
Any additional information	[View Document](#)

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

The All India Shri Shivaji Memorial Society 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 endeavour we have a well established Gymkhana Department for effective and better coordination of various sports and cultural activities which is headed by Vice President Gymkhana along with Physical Director, Cultural In charge and supported by the student sports and cultural committees.

The college have following Outdoor and Indoor sports and Cultural facilities.

Outdoor Games: Cricket, Football, Netball, Kho-kho, Volleyball, Kabbadi and Hockey.

Indoor games: Table tennis, Chess, Carrom, Gym and Hall for Yoga.

Cultural activities: Open Air Theatre, Cultural room with latest musical instruments and practice area.

Since the establishment of the Institute, the gymkhana has been playing vital role in the overall development of the students. As a results, our students have earned applauds in the various competitions at University, State and National level sports and cultural competitions, prominent among them are University Inter collegiate sports competition, Verve, Vedant, Purushottam Karandak , Firodiya Karandak , Crescendo, Milanze, Zest , Versatalia, MIT Summit, Sakal Karandak, Sarpotdar Karandak, Kaware Trophy etc. Our students have also represented at Roll ball and Rugby competitions at International levels. One of our students Mr Shashidhar Mhaske has been awarded the Government Of Maharashtra presitigious State Level Best Sportsman "Shiv Chattrapati Award".

The students who participate at various sports and cultural events are paid TA/DA. The students who show excellent performance at University, State and National level competition are encouraged by college by giving them track suits and sports kits. The student achievement is also acknowledged by felicitating them at Society and Institute level functions. The institute provides all sports material to students.

Apart from participation at various sports and cultural event, College Gymkhana also organises following events every year :

1. Annual Social gathering event 'Shivanjali' ,
2. Inter – Collegiate Sports and Cultural Competition at Inter – Engineering Institute level 'Ashwamedh',
3. State level Inter-Collegiate T20 cricket tournament "Shivaji Cricket Trophy", on the occasion of Shiv Jayanti,
4. State level Inter-Collegiate "Shahu Football Trophy".
5. Inter- department sports competition

The students sports and cultural committees are actively involved in organising the above events and we are proud to say that the above events are organised by the students and for the students. A separate budget is allocated by the institute for organisation of various Gymkhana acvtivities and students are encouraged to get sponsorship for organising the events like Ashwamedh ,Shivaji Cricket Trophy, Shahu Football Trophy etc.

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 the society after they complete their education from the institute.

File Description	Document
Any additional information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 46

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)
any additional information	[View Document](#)

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 63.82

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five

years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
366.56	566.31	503.81	492.81	428.81

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)
Any additional information	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Integrated Library Management System is used to manage different functions of library. Institute Central Library is using commercial software as well as Open Source software for Automation of Library Services.

Library is automated with System for Library Information Management (SLIM) software having version 21. Library collection can be browsed / searched on Intranet using SLIM21 OPAC module. SLIM21 helps for catalogue books, e-books, articles, reports, serials publications that contain information so vital to institute. SLIM21 cataloguing adheres to popular international standards.With SLIM21 retrieval of information is simple, fast and efficient. Even a catchy phrase in the description of the catalogued item can be used for searching.SLIM21 supports flexible workflow to cover activities related to acquisition of books, serials control, and funds monitoring.

 This software has modules like Acquisition, Cataloguing, Circulation, Serial Control. Acquisition modules &Cataloguing Module is utilized for generating accession register reports, adding Bulk student's record, updating item lending policy and its status. Circulation module has books issue, return, and reserve options. Various reports such as loan borrower, item inventory status, circulation status summery, item transactions and operator wise transactions can be generated in this module. Similarly, library barcodes are also generated through this module making cumbersome library work simpler, effective, and time is saving. Serial Control module maintains the record of print journals and track of subscribed issue in the library. Generation of expected arrival schedule of loose issues can be generated in serial control module.SLIM21 software also provide statistical analysis required for Library Management system such as weekly transitions most issued items, less issued items, reference books, Books send for binding. The number of transactions carried out through this software in academic year 2013-14 ,2014-15,2015-16,2016-17,2017-18(transactions up to September 2017) are 16055 ,1551, 47295, 41656,25002 respectively. This software is purchased from Algorhythms consultants Pune, they provide

online and offline support for software problem, proper backup, and maintenance of software during annual maintenance contract period.

Library web OPAC link is provided on college website under facilities page http://aissmscoe.com/facilities/digital-library/ to students and faculty for renewal of books and searching library materials.Digital Library Collection, Rare Books, open Sources books, previous year question papers, College News, and daily online newspaper are made available for students and faculty through open source software Calibre. The link is available through LAN and on College Website http://aissmscoe.com/facilities/digital-library/. Institute library is also using Dspaceopen source software for institutional repository where AISSMS faculty publications are made available. The link is available through LAN and on College Website http://aissmscoe.com/facilities/digital-library/AISSMS Library is using social media platform for information dissemination like Library blog http://aissmscoelibrary.blogspot.in/ Library blog is getting popular day by day till date 41076 visits has been recorded to Library blog. Library also use face book page account, to disseminate current information to users.

Library website built with open source platform, where E resource access help video tutorials are also provided link https://aissmscoecentrallibrary.weebly.com/video-tutorials-for-online-journals.html

File Description	Document
Any additional information	[View Document](#)

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Institute Library has downloaded various Rare books from Rare Book Society Of India (RBSI).The collection is stored in Calibre Digital Library. Students and Faculties can access these 130 **rare books** through LAN as reference material for enrichment of their knowledge. The rear books having large variety of title such as inspiring Stories, history, yoga, philosophy survey, observations, astronomical, geographical, botanical, economic, literature, religious, treatise, criminal, culture, empire, war, railway, etc.

Library is also having good collection of 883 **Reference books** which are published by renowned publisher such as Elsevier, Jhon Wiley, Springer ,Evnst&Sohn,CRC Press, Blackwell, Britannia, Britannica IIlustrated Science Ltd, Wordsworth Cengage, Society of Automotive Engineers, McGraw Hill, Kluwer Academic, etc

The reference books having large variety of title such as Drives & Control, Signal Processing, Photovoltaic System, Electric Power Systems, Hybrid Vehicles, Treatment, Recycling ,Reuse, Encyclopedia, Mechatronic System, Fault Diagnosis Systems, Data Driven Techniques, Human Body, Fuel Cells, Radar Handbook, Energy Dissipators, etc.

Under special report category library has 36 Board of College & University Development (BCUD) research Report funded by Savitribai Phule Pune University, 25 PhD Thesis and 86 proceeding of

conferences. These special reports are made available to students for their projects and presentations works as reference material. BCUD research report focus on upcoming research area such as water Purifier, novel techniques, Anti micro Bacterium agents, biodiesel synthesis,reactive Distillation,bacterial Drugs,Biomass fermentation, earthquake resistant structures, eco-friendly models, high speed network,commutation framework architecture, data security, soft computing,microwave sensor,polarization diversity,alternative fuel,etc.

PhD Thesis's are one of the most valuable reference documents available in library, which mainly highlight on Computational Fluid dynamics, anesthetic drugs, Diffusion Coefficients in Liquids, FRP wrapped concrete, Intrusion detection system, Hand gesture recognition, data mining, etc. Methodology, Signal Processing Techniques, Wavelet based Techniques, Robust Flight Control System, lubricating oils, sintered bearings, Metal Complex Crystals, Reinforced Embankments, solar Dryer, etc.

Library is well stocked with 261 **Competitive examination books** useful for GATE, TOFEL and MPSC, UPSC Exams. These books covers various aspects such as reasoning, aptitude, and course objective type questions, puzzles, economics, Verbal Ability & Reading Comprehension, Data Interpretation, General Knowledge,etc.

Library is regularly organizing various National, International Conferences and workshops. Library website built with open source platform where 'E resource access help' video tutorials are also provided to users on link https://aissmscoecentrallibrary.weebly.com/video-tutorials-for-online-journals.html.. This video guide the user how to search any article or chapter on E resourses. Library is taking online feedback from students and faculty to improve library services. Link for library feedback is https://docs.google.com/forms/d/e/1FAIpQLScbLP-TxOE4eB4_zALitxltzpjUqovz5VpMSRD93W0wVu2Veg/viewform

Institute Library has started NPTEL Local chapter at College level. http://nptel.ac.in/LocalChapter/college_homepage.php?collegeid=1015. NPTEL video lectures help students to enhance their technical concepts. LOCAL GURU portal has NPTEL video lectures available on link http://172.16.0.5/localguru/ students and faculties can access these videos through LAN.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 33.11

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
28.80	31.15	42.96	55.46	7.18

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Details of remote access to e-resources of the library	View Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 13.17

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 427

File Description	Document
Details of library usage by teachers and students	[View Document](#)
Any additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

In this electronic communication era, the internet communication is very important in teaching learning process. To fulfill the norms of AICTE and University, the institute has very strong IT infrastructure. Institute has 6 system software and 62 application software, which are used to continuously nurture the student.

Application Software such as MATLAB, ANSYS, Altair Hyper Works, Master CAM X9, Solid Edge ST8, PTC Creo 3.0, Proteus 8.0, Multisim, Auto CAD Civil 3D etc are available at institute level. Software are updated continuously, such as MATLAB is updated from version 10 to 16, ANSYS is also updated from version 10 to 17, etc. laboratories are contineously updated with latest version of computers such as i3, i5 and i7. Institute has well established language lab to enhance communication skills of student and faculty.

High end IBM Xenon, HP pro ML10 GB, Window server are available for smooth conduction of various activities such as online examinations,workshops , online competitive exams, virtual lab,etc.

Learning Management System (LMS)-Moodle, which helps the institute to manage effective teaching learning processes. The institute has massive network of 1055 computers with 50 Mbps Internet connectivity and Wi-Fi facility to fulfill the academic and research need. Centralized firewall Cyber roam is used for network monitoring, management and Internet security. The institute has deployed the educational Enterprise Resource Planning (ERP) software, iCloudEMS which is a cloud-based automation in college. ERP system/software, which manages the entire administration, campus operations, and academic management in an efficient way. This iCloudEMS software has 20+ modules and it facilitates computerized process for student admission, transfer of educational certificates on completion of studies, teachers-parents communication, examinations, financial and administrative operations, attendance and academic monitoring.

 The Institute has separate centralized maintenance system in order to support the IT infrastructure, campus

facilities and equipments.

Faculty members have provided with the computer and Internet connection at their respective locations. All the Computer laboratories and facilities are connected with the Internet and are made available to the faculties and students for their academic needs in their respective departments. Central computing facility with 100 Intel core i3 computers with 50 Mbps speed Internet connectivity is available for research & development . For uninterrupted computing, UPS is available in all computer laboratories.

LAN facility: 3-Layer Switching (Core, Distributed and Access) network is available for the entire campus. Core layer switches in the buildings have been connected with the Optical Fiber Ring Network. This core switching is further extended to Distributed Switching for departments where 100/1000 Mbps (Gigabit Switches) are installed.

File Description	Document
Any additional information	[View Document](#)

4.3.2 Student - Computer ratio

Response: 2.88

File Description	Document
Student - Computer ratio	[View Document](#)
Any additional information	[View Document](#)

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	[View Document](#)
Any additional information	[View Document](#)

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture

Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	<ins>View Document</ins>
Any additional information	<ins>View Document</ins>

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 62.4

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
700.27	529.20	556.36	412.07	291.45

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<ins>View Document</ins>
Audited statements of accounts.	<ins>View Document</ins>
Any additional information	<ins>View Document</ins>

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The institute adopts standard established systems and procedures for maintaining the physical, academic and support facilities that are mentioned in the maintenance policy document of the institute. There are college level committees that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities. The role and responsibilities of committees are given below.

- General civil maintenance and upkeep of civil infrastructure is carried out by the institute level canteen and campus committee.
- Repair and Maintenance of laboratory equipments/instruments are initiated by the respective

Laboratory In charge as and when required. The purchase committee handles the repair/maintenance/calibration request appropriately by placing order to the respective equipment experts. History cards of the equipments are maintained, which indicate the maintenance/repair/calibration of the respective equipments. As a precautionary measure laboratory in charge, along with laboratory assistant, ensures proper working of all equipment at the beginning of each semester.

- A budget is annually allocated for maintenance of the physical facilities of the institute.
- The classrooms, laboratories, seminar halls, and library facilities are utilized regularly by the students for the learning process and timetables/logbooks indicate the regular utilization of the respective facilities.
- The maintenance and housekeeping of the classrooms, laboratories, library, and the institute as a whole are taken care by external agency and non-teaching staff.
- Security of the institute is assigned to external agency.
- Fumigation of the entire institute is done frequently by third party housekeeping agency.
- The institute garden is maintained by the gardener appointed by the society.
- The institute has adequate number of computers with internet connections and required software's distributed in different locales like office, laboratories, library, departments etc.
- There are computer/software laboratories for each department and a central computer laboratory with proper networking for internet access.
- The library has a reading hall and separate computers for students to access e-journals, while the subscribed e-journals can also be accessed from any networked computer in the institute.
- All the computer related facilities including hardware, computer peripherals, UPS and generator are maintained by giving annual maintenance contract to third party.
- The maintenance of water coolers, EPABX system, and Air conditioners in the institute is carried by external agencies through annual maintenance contract.
- Anti-virus software is purchased and is renewed annually for the smooth working of all the computers in the institute.
- Minor maintenance of furniture items and metal fixtures is carried out by the workshop department and the minor electrical maintenance is looked after by the Electrical Maintenance coordinator and his team.
- The sports facility of the institute is handled by a physical director and these facilities are made available to all the students of the institute.
- The institute has large open grounds for cricket, football, volleyball and basketball and a gymnasium utilized by the students.
- Emergency exits and fire fighting system are provided to counter situations like fire hazard and natural calamities.

File Description	Document
Any additional information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 51.77

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1649	1667	1555	1457	1202

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	[View Document](#)
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 9.12

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
231	278	571	159	124

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	[View Document](#)
Any additional information	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	[View Document](#)
Any additional information	[View Document](#)
Link to Institutional website	[View Document](#)

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 10.55

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
271	379	321	297	264

2016-17	2015-16	2014-15	2013-14	2012-13
240	308	262	238	186

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 6.56

5.2.2.1 Number of outgoing students progressing to higher education

Response: 45

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 61.5

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
38	100	132	87	136

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
60	291	182	134	188

File Description	Document
Upload supporting data for the same	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.

Response: 24

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
03	03	05	04	09

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	[View Document](#)
e-copies of award letters and certificates	[View Document](#)
Any additional information	[View Document](#)

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

The aim of forming General Students' Association (GSA) is to involve the students in

academic, co-curricular & extracurricular activities. Through these activities GSA members learn planning, organization, analysis, estimation and execution along with trouble shooting, which help in their comprehensive development. From each discipline, we have General Secretary and Joint General Secretary selected by the respective department.

The GSA is governed by a committee of faculty members headed by Principal of the college. The GSA is further sub-divided into committees such as Student Grievance, Anti-Ragging, Cultural, Sports, Technical events, NSS and Professional student's chapter (Institution of Engineers (IE), Indian Institution of Chemical Engineers (IIchE), ISHRAE, Society of Automobile Engineers (SAE), Computer Society of India, BAJA, SUPRA, Go Kart, Aero –modeling (GARUDASHWA), Efficycle etc.

 Following is the narrative of functions and events conducted by various Committees:

1. Students' Council: Under section 40(3) of Maharashtra Universities act, 1994, this council is established every year in the Institute and it performs its duties prescribed.

2. Student Grievance: This committee addresses student grievances and maintains harmony and discipline among the students.

3. Ant-Ragging: This committee ensures zero ragging incidents in the Institute and also spreads awareness among students against any type of ragging activities.

4. Cultural: This committee co-ordinates various cultural activities and events throughout the year. "Shivanjali" is annual social gathering which showcases cultural talent of students. "Ashwamedh" is intercollegiate cultural competition organised by the students. Our students participate in prestigious intercollegiate competitions such as Firodiya Karandak and Purushottam Karandak every year and bag prizes.

5. Sport: This Committee organizes Shivaji Cricket trophy & Shahu Football trophy at State level. It also organizes interdepartmental sports event. Our students actively participate in various sports in intercollegiate, interuniversity, state, national and International level.

6. Magazine: 'Shivdarpan' is our annual magazine published by Magazine committee. Students express their talent in the form of articles, poetry, interviews of eminent personalities etc. This exercise imbibes societal values in students.

7. Technical Activities: Every Department is having active Student's chapter associated with the Institution of Engineers, India. These chapters conduct various programs such as Expert lectures, Industrial visits to name a few. Institute organizes technical symposium "Engineering Today" every year consisting of various technical competitions such as Paper Presentation, Technical Quiz, Robot War, Model Making etc. Each department organizes these events which motivate students to take part and

enhance their technical ability. These events are recognized on state and national level. There are various committees for technical events like BAJA, SUPRA, Aero–modeling (GARUDASHWA), Go-kart, Efficycle etc. Team of students' carryout various tasks at National and International level.

8. Extension Activities: Any education is incomplete without social awareness. "NSS Committee" is active in carrying out different activities such as Blood donation Camp, Swachcha Bharat Abhiyan, Yoga day, Tree plantation etc. There are active student chapters affiliated to Institution of Engineers, Indian Institution of Chemical Engineers, ISHRAE, Society of Automobile Engineers, Computer Society of India. The students are motivated to take part in various events organized by these professional bodies.

File Description	Document
Any additional information	[View Document](#)

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 23.4

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
32	21	21	20	23

File Description	Document
Report of the event	[View Document](#)
Number of sports and cultural activities / competitions organised per year	[View Document](#)
Any additional information	[View Document](#)

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The Institute established Alumni association in the academic year 2014-15, previously department wise Alumni-Meet was conducted. The main objectives of association are

1. To promote and foster mutually beneficial interaction between Alumni and the Institute.
2. To encourage the formation of regional chapters to increase participation of Alumni
3. To encourage the Alumni to take abiding interest in the process and development of Institute.
4. To arrange and support in placement activities for the students of Institute.
5. To encourage the students of the Institute and members of the Association for research & development work in various fields like engineering, computer Industrialization etc.
6. To mentor the students of the Institute for higher education, development of character and being GOOD citizens.
7. To provide scholarships to deserving students and ex-students of the Institute for the purpose of education and sports.
8. To encourage and guide the students of the Institute on self-employment to become entrepreneurs.
9. To guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc.
10. Promote the Industry-Institute interaction to bridge the gap between industry requirements and education offered and enhance students' employability.
11. To help and assist other regional bodies for training programs in entrepreneurship development, with resources available with association.
12. To encourage and support students of the Institute in sports, cultural and extra-curricular activities.
13. To promote computer and internet literacy among the society.
14. To provide medical support to existing and retired teaching and non-teaching staff.
15. To organize debates on various social issues.
16. To help towards environmental conservation , anti-pollution activities against air, water and sound pollution, by slide show, street play, demos, handbills and all possible ways of social awareness.
17. To help victims and victim areas of natural calamity and disasters like earth quakes, flood, storms, malnutrition, fire and violence etc.
18. To help and guide students and ex-students of the Institute for anti-drug, anti-ragging, and any other anti-social activities.
19. To publish books, periodicals for public interest.
20. To arrange blood donation, eye donation and health awareness Camps.

Sighting the above objectives of Alumni Association our alumni contributes in many ways for the development and betterment of our Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. The alumni of Institute is guiding and nurturing our students to become engineering professionals. It is our plan to develop everlasting relations with our alumni which in turn will give rise to mutual benefits.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: 1 Lakh - 3 Lakhs

File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 4

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
00	02	00	00	02

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document
Any additional information	View Document
Report of the event	View Document

31-07-2018 01:30:53

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Institute has vision and mission which are futuristic in nature. They satisfy the needs of society by providing quality education through leading-edge technology.

Vision of the Institute

Service to society through quality education

Mission of the Institute

Ø Generation of national wealth through education and research

Ø Imparting quality technical education at the cost affordable to all strata of the society

Ø Enhancing the quality of life through sustainable development

Ø Carrying out high quality intellectual work

Ø Achieving the distinction of highest preferred engineering college in the eyes of the stake holders

The institution's distinctive characteristics are defined in the mission and discussed as follows:

Ø Quality education

Ø Research & Development

Ø Lifelong learning

Ø Social and ethical values

Vision and Mission of the Institute focuses on the needs of society by providing quality education. The governance comprising of Governing Body (GB), Local Management Committee (LMC) now termed as College Development Committee (CDC), Department Advisory Board (DAB) and Internal Quality Assurance Cell (IQAC) play significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stake holders. The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by HODs, Administrative Head, Section in-charges and coordinators of various cells/committees in decision making process of the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities.

The Institute maintains the culture of retention of Faculty and hence has an edge of senior and dedicated Faculty for realizing its Vision. Institute follows recruitment policies and service conditions as per the rules and regulations of regulatory authorities. Fair representation of women faculty is also ensured at all levels of organization and congenial environment is fostered.

Based on the Vision and Mission of the Institution, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. Institute has a perspective plan developed by Principal and HOD's with suggestions of IQAC, DAB under the guidance of LMC and GB. Deployment of the quality policy is done by providing requisite academic infrastructure, learning environment and harmonious work culture. Student's surveys and feedback from all the stakeholders plays vital role in framing and revising policies.

IQAC (formerly QAC) formulates perspective plan taking into consideration inputs from all stake holders. This plan is presented and deliberated in Institute Development Committee under the chairmanship of Principal to get consensus. This plan is forwarded to the governing body for approval.

The Institution policy believes involvement of all staff in decision making. To streamline the same, various committees at Institute level are formed which look after academic and administrative activities which lead to the realization of vision and mission of the Institute.

File Description	Document
Any additional information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The Institution has culture of decentralized governance system with well-defined inter-relationships. Institute delegates adequate and systematized authority to the departments to work towards decentralized governance system. There are various committees involving faculty which are constituted to manage different institutional activities. Committees are formed for the various curricular, co-curricular and extra-curricular activities to be conducted during the academic year. The departments are encouraged to arrange various activities with the support of Management for the benefit of Students and Faculty; also the management has extended enough financial powers to Head of the Institute and Department Heads.

College is keen on the teachers' involvement and participation for improvement of effectiveness and efficiency of the institutional teaching learning process. The Institute has always been in favor of participative management. The decision suggested by teachers in the meetings in the forum of HOD, ADC, ILCs and department meetings are conveyed to the management through principal. The management ensures that the opinions and suggestions made by faculty and staff are included in decisions implemented for college development. This process probes to the institutional practices for decentralization and participative management.

One successful and demonstrative case is Indo-German Collaboration on 'Waste water treatment' in which management conducted different meetings with coordinators for promoting various activities. The

college has executed MoU with VESBE Germany. The goal of this MoU is to set up a vocational training and education project in the industrial sector "Urban Water Management." Under this MoU various activities are carried out they include, 1)Indo German colloquium

2) a joint survey of the various water management systems including municipal potable and sewage treatment plants and industrial sewage treatment plants in and around the Pune city,

3) visit of German delegation to discuss and finalize various modalities. Based upon the outcome of these activities, syllabus has been framed for the relevant human resource development offering the two courses such as

a) Basic Course on 'Water Management' (240 hours) and

b) Specialized Courses on 'Water Purification' (240 hours) and 'Wastewater Management' (240 hours).

VESBE, Germany has donated "The Environmental Discovery System (EDS)" and "3D simulation model" costing of Euro 61,695.80 to AISSMSCOE, Pune. The usefulness of equipment is for demonstration and to give hands on training to the students. Recently institute has organised a One-day international conference jointly with the German Consortium on 'Water Management and Training in India' to formally launch the vocational program for Indian industry and Municipal corporations on 29 May 2017. The conference was held at Sheraton Grand, Pune.

The case study mentioned above is the classical example of teachers involvement in decision making process and work involved in the activity reveals the involvement of management in to it and reflects as a practice of decentralisation and participative management.

File Description	Document
Any additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Perspective plan is available and uploaded.

Successfully Implemented Example: ERP process

Enterprise resource planning (ERP) is business process management software. It has allowed our organization to use the system of integrated applications to manage our academic activities online. In our institute all major tasks related to teaching learning, academic/administration planning, implementation and analysis of variety of tasks are being carried out by ERP.

Institute started using ERP in its day to day academic and administrative activities from the year 2015-16. The chronological transformation of academic activities is achieved through strategic planning from offline to online which can be briefed as follows:

Offline to Online Transformation

Before the implementation of ERP system, the method of filling and maintaining the hard copy of Academic Performance Report (APR) was in use in the institute since the early years. It contained all the basic activities in single booklet covering academic calendar, time table, syllabus, teaching plan, attendance along with academic monitoring for theory and laboratory performance of the students. It also contained the records for Project/Seminar progression, industrial visits, result analysis and faculty appraisal.

To enhance the process of maintaining, monitoring and controlling of teaching and learning activity, decision was taken in central committee meeting. Thereafter the implementation of the maintaining e-database for few academic activities started online using Yahoo Groups from the academic year 2009-10. Teaching plan, time table, assignments, lab manuals and question banks were shared in the student's yahoo groups created for all the classes in all engineering programs in the institute. The kaizen was still applied further by central quality circle committee and the use of Excel sheets and its sharing on Google drive was introduced from the academic year 2013-14 for academic activities. ERP was introduced in AISSMS COE from the year 2015-16. Our Institute has taken up a step forward to enhance the quality of education by bringing all functions under one platform through ERP software where better, faster data based and logical decisions can be taken to achieve the educational excellence. Use of ERP system provides ready and relevant information to stake holders particularly to students, parents, teachers, industry, employees, etc.

Major functions currently carried by ERP software are:

1. Faculty Profile
2. Students database
3. Teaching plans
4. Time tables (Academic/Class and Personal)
5. Experiments schedule
6. Attendance monitoring
7. Examination schedule
8. Class assignments record
9. Question bank preparation
10. Syllabus coverage monitoring
11. SMS to the parents and students
12. Faculty feedback by students
13. I-card generation
14. Roll call list generation
15. Subject allotment and accessibility authority (Faculty, GFM, Head)
16. Variety of reports pertaining to academic monitoring can be printed
17. Additional modules can be added, if needed (Material inventory, purchase modules will be added in the future)

AISSMS COE experienced a rise in effectiveness, transparency, and improved quality of execution of academic and administration processes. It also reduced use of papers significantly.

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

AISSMS College of Engineering has well established organizational structure to execute out smooth functioning of administrative and academic processes. Various bodies are formulated which constitutes 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, Principal, three members elected from teaching faculty and one member of non-teaching staff.

The constituents of the organization structure are as follows:

Every department has Department Advisory Board (formerly Department Advisory Committee) to direct policies to excel students in academics and in work environments. It comprises one member each from industry, research establishment, and academic institute of repute, alumni, student, and parents and from 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 perview.

1. Governing body
2. Local management committee
3. IQAC
4. Principal
5. DAB
6. Academic development committee

- Principal
- Head, Chemical Engineering
- Head, Civil Engineering
- Head, Computer Engineering
- Head, Electronics Engineering
- Head, Electronics and Telecommunication Engineering
- Head, Mechanical Engineering
- Head, Mechanical (Sandwich) Engineering
- Head, Production (Sandwich) Engineering

- Head, First Year Engineering
- IQAC Co-ordinator
- Head, Department Advisory Committee
- Head, CITP
- Librarian
- Physical Director
- Workshop superintendant

7. Department level committees (ILCs)

- Department Co-ordinator
- Lab development In-charge
- R & D Co-ordinator
- Coordinator, Industry-Institute-Interaction
- Co-ordinator, Services/Purchase
- T & P Co-ordinator
- QAC co-ordinator
- Co-ordinator, Student Activities
- PG program co-ordinator
- Co-ordinator, Student Chapters
- Guardian Faculty Members
- Co-ordinator, Examinations

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation

1. Planning and Development
2. Administration
3. Finance and Accounts
4. Student Admission and Support
5. Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
ERP Document	[View Document](#)
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	[View Document](#)

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

AISSMS College of Engineering started students' chapter, Institution of Engineers, India, IE(I) to foster overall development of students' (Technical, leadership, organizational, finance management skills, etc.) of various engineering branches in their respective technical domains. IE(I) Students' Chapter offers unique opportunities for our Institute students working in teams, networking with peer groups, and bonding over organized events/programs. Various stages involved for starting of the student chapter in our institute involved stage wise process of chapter opening, student registration, student body formation, national level election (all India student committee) and two meetings in a year (for strategy formulation, planning and execution).

Following table shows various Departments in our institute have active IE (I) Students' chapter. Few Departments have this chapter functional for over a decade now.

Table: IE(I) Students Chapters of various Departments

Sr No.	Department Name	Year of inception IE(I) Chapter
1	Mechanical Engineering	October, 2006
2	Electronics Engineering	October, 2006
3	Computer Engineering	October, 2015
4	Civil Engineering	January, 2016
5	Production Engineering	October, 2006
6	Electrical Engineering	October, 2006
7	Chemical Engineering	October, 2006

Various technical activities are organized under the aegis of this chapter in above engineering programs.

Following activities are carried out in this student chapter:

1. Guest/expert lectures
2. Workshops for students
3. Seminars
4. Industrial visits/Technical visits for students
5. Short term training programs
6. Social program

7. National Technical Events (AISSMS Engineering Today)
8. Science exhibition (Technical Projects in all the Departments)
9. Intra and inter department competitions
10. Career counseling and competitive examinations
11. Soft-skill/leadership programs
12. Programs on Entrepreneurship development
13. Aptitude test, group discussion, technical test and mock personal interview for students on campus recruitment
14. Student's clubs- Robotics, Drone, Aero-Design etc.

Most of these activities involve interaction with industry personnel, notable academicians and alumni.

Success stories of IE (I) students' chapter:

The students' chapter of our institute has grand success story. Every Department with IE (I) chapter organizes variety of events/activities/competitions for the students. Annual reports are sent to IE (I) national body for the best Students' Chapter award in response to the national body's notice. It's rare feat to bag the prestigious award at the national level and that too for four straight years in a row. Department of Electronics and Telecommunication Engineering has bagged IE(I) national best students' chapter award in the year 2012-13, 2013-14, 2014-15 and 2015-16 consecutively. Department of production engineering has bagged awards under National Design Research Forum (NDRF) in project design in the year 2012-13, 2013-14, 2015-16 and 2016-17.

Faculty advisor and student convener from our institute are elected on All India students' committee (AISC) in year 2014-15, 2015-16 and 2016-17 consecutively.

The National event of Engineering Today was initiated in the academic year 2006-07 and is successfully continued every year till date with increasing participation of students from across many states.

File Description	Document
Any additional information	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The institute has variety of welfare schemes for teaching as well as non-teaching staff as follows:

1)Co-operative Credit Society: Started by the AISSM society for the welfare of all employees since inception (1992). The loan facilities are given to all employees working in the institute. Following two types of loans are available for the employees. The amount of Rs 1500 per month is deducted from the salary account of the permanent employees as the share to the Co-operative credit society. The dividend is also shared with all the employees every year.

Emergency Loan Facility: This type of loan is available for the emergency of the employee or his family as per the need arises. The maximum available loan amount is Rs 20,000 repayable in 10 months.

Ordinary Loan Facility: This type of loan is available for the employees as per the demand with low rate of interest. The maximum available loan amount is Rs 5 Lacs repayable in 5 years.

The eligibility criteria to obtain loans are as follows:

- The applicant must be a permanent member.
- Two guarantors
- The application form duly filled and signed by the applicant is only required. No other document is required.

2) **Festival advance** are given to all employees who desires to avail . The amount given as advance is thereafter deducted from monthly salaries.

3) **Group Insurance:** The master group insurance policy no. GSLI/637341 was taken for **all employees** on 28th July 2006. Nominal amount of RS. 200/-, Rs. 140/- and Rs. 90/- are deducted from the monthly salaries of teaching faculties, lab technicians and attendants respectively. Upon the death of the member before retirement, following life insurance benefit is ensured.

Teaching faculty (Category I)- Rs. 2,00,000/-

Lab technician (Category II)- Rs. 1,40,000/-

Attendant (Category III)- Rs. 90,000/-

4) **Uniform for class IV staff:**

Uniforms are provided to all class IV staff twice in a year.

5) **Maternity leave:** 6 Months maternity leaves are provided to women employee after completing probation of 2 years.

6) **Gratuity:** This scheme was initiated in year 1992 for retirement benefits or on leaving the job. Gratuity is received by an employee in gratitude for their services offered to the institute.

7) **Doctor on call:** This facility is available for all staff and students. Doctor is available as and when required

8) **Employees' Provident Fund** is deposited along with same contribution from institutes' side.

9) **Deputation of faculty for research:**

Following facilities are provided

1. Financial assistance of Rs.1 Lac or study leave
2. On duty leave as per requirement

File Description	Document
Any additional information	

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 12.56

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
51	10	20	23	13

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	
Any additional information	

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 12.6

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
21	9	21	4	8

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	
Any additional information	

31-07-2018 01:30:55

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 48.53

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
109	133	87	69	54

File Description	Document
IQAC report summary	[View Document](#)
Details of teachers attending professional development programs during the last five years	[View Document](#)
Any additional information	[View Document](#)

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Performance Appraisal System for Faculty:

Quality teaching is indispensable for improving student outcomes and achievements. Institute has well designed performance appraisal system. It is implemented with the help of Performance Appraisal Reports (PAR) which evaluates overall performance. Performance is self assessed and duly filled in PAR by Faculty and Staff at the end of every semester. PARs are then evaluated by respective HODs /Section heads and Principal. PAR system inspires Faculty which boosts professional knowledge and growth. Therefore it is made mandatory for every Faculty and Staff to submit the performance appraisal every semester**.** The performance appraisal system evaluates on following parameters:

I. Teaching, learning and evaluation related performance (number of theory, practical and tutorial hours conducted against the load given)

II. Co-curricular, extension and professional development related activities (Extension/co-curricular, Professional Development related Activities and Contribution to Management of Institution)

III: Research, publications and academic contributions

IV. Official conduct (target based works, punctuality and obedience)

V. Other relevant information (consists of significant contribution, awards received and additional activities not included in the above points)

Performance Appraisal System for Staff:

Performance Appraisal System for Staff is monitored on the parameters observed viz. Performance factors that include industry and applications, capacity to get the work done by subordinates and relations with colleagues. The integrity and their character are also reviewed. The length of service under reviewing authority is noted. The system is transparent and the appraisal with comments of the Head of the Department is then analyzed by the Principal. After the evaluation every concerned staff is either appreciated or directed for further improvements. The appraisal system is also for the attendants; the parameters for the assessment are physical ability, technical ability, obedience and punctuality.

Based on the reviews, the report is submitted to the Management.

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Our society has maintained a very transparent financial system in the institutions. There are well defined processes for sanction of budget to expenditure.

An internal approval system for all expenses is in place. Accordingly bill/voucher is recommended by the Head of the Department and approved by the Principal and Honorary Secretary of AISSM society. All the bills/vouchers are audited by an Internal Auditor on a routine basis. Proper record of all the expenses is maintained by the accounts department.

An external auditor appointed by the society, executes the statutory audit. Statutory financial audit is conducted in two sessions, one in the month of October/November for the period of April to September and second in the month of April /May for the period of October to March. Finalization of the account is completed in June/July and audited statements are prepared in June/July duly signed by the Principal, and chartered accountant. Then audited report is submitted by chartered accountant.

No major objections are found in the audit by the statutory auditors and minor audit suggestions are complied as per procedure.

File Description	Document
Any additional information	[View Document](#)

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 12.73

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
3.82	1.09	3.35	3.63	0.84

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	[View Document](#)
Annual statements of accounts	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The college has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purpose which help ultimately in realizing the institute's vision and mission.

Institute has made the necessary provision in the books of account towards efficient use of available fund for each academic year. As per the guidelines of the management and Principal, Variance report of sanctioned budget and actual expenditure are regularly maintained.

The Institute has a well defined procedure to monitor effective and efficient utilization of available financial resources for infrastructure development and academic processes. Every year, the budget is prepared well in advance after taking into consideration the requirement of every Department. Each Department prepares the budget based on the requirement such as equipment, computer as well as consumable required for next academic session. Principal puts up the budget in Governing Body meeting and after discussion and necessary corrections/modifications; 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 a provision for advance additional fund. The Principal and the Head of Departments discuss the requirement and decide the priorities while allotting financial resources for various purposes; and also ensure 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 procedure for sanctioning of funds for various activities and also for settlement of advance and passing of bills for payment.

The Management has given complete support to Principal for organization of various co-curricular & extra-curricular activities like technical events, sponsoring of faculty & staff for various skill development programs, providing financial support for attending conferences, workshops, pursuance of higher education etc. Financial support is also provided for participation of students at various national and international level events like Baja, Supra, Efficycle, Go-Kart, Aero-design and different clubs like Robotics and Drone.

The Society has constituted a separate purchase Committee comprising of Management representative, Principal & college concerned staff. The purchase procedure such as calling quotation, technical bid, preparing comparative statement, negotiation meetings are followed for effective and efficient use of available financial resources. The committee ensures that suitable equipment with right specification is procured at competitive and optimal prices.

Financial audits are conducted by a chartered accountant every financial year to verify the compliance with established processes

Apart from this the college also provides financial assistance to student for participation at various national & state level cultural & Sports competition. We are very proud to say that due to the financial freedom given by the management in organization of various sports & Cultural events at institute level and participation of our student in various national & State level culture & Sports competition our student have shown excellent performance in these events.

File Description	Document
Any additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The Institute has an internal quality assurance cell constituted and reformed time to time. The sole objective of this committee is to improve the overall quality of academic and administrative functioning and activities of the Institute in accordance with vision and mission.

This committee periodically reviews the outcome of various academic and administrative committees. This committee has contributed significantly in strategizing, formulating, standardizing and implementing various quality policies, initiatives and processes.

Two examples of best practices institutionalized as a result of IQAC initiatives (formerly QAC) are counseling for staff and students and Institution of Engineers, India, IE(I) Students Chapter.

1. Counselling activities for Staff and Students

Mentoring student is a unique feature of AISSMS College of Engineering. It is a process of creating a supporting relationship with faculty, parents and students aiming at comprehensive development of students. In this activity, Mentor helps a less experienced student to bring with them a higher level of experience for values of life. Mentoring helps to shape an individual's beliefs and values in a positive way. There are many benefits of mentorship in student development that includes communication, interpersonal relationship, technical, verbal, motor and leadership skills along with creative thinking and motivating students for extracurricular activity.

IQAC initiated the Faculty development training programs to meet the requirements of Mentoring. The Mentors had interactive sessions with professional psychologists and Doctors; this broadened their knowledge to understand the problems of student mentees. A meeting of faculty and student (Mentor and Mentee) is conducted on regular basis. Observations about students are recorded per meeting basis. Parents are also well informed about various aspects of development of their ward. The methodology and guidelines are reformed time to time as per the suggestions received from centralized meetings.

Mentoring system implemented at AISSMSCOE has helped to address the issues and concerns of students on their daily working life and find solutions that work for them. Case studies in various Departments have set an example for the same and a sample is uploaded for reference.

1. **Institution of Engineers, India, IE(I) Students Chapter**

IQAC has ensured the structured development of students through co-curricular activities. The students' chapter of our Institute has grand success story. Every Department with IEI chapter organizes variety of events/activities/competitions for the students. Annual reports are sent to IEI national body for the best Students' Chapter award in response to the national body's notice. It's rare feat to bag the prestigious award at the national level and that too for four straight years in a row. We are proud to receive the IE(I) national best students' chapter award for successively four years for the department of Electronics and telecommunication from the year 2012-13 to 2015

Also the department of Production Engineering have received National Design Research Forum (NDRF) award at national level design contest for the year 2012-13, 2013-14, 2015-16 and 2016-17 conducted by IE(I).

Our Institute has representation on the national body "All India students' committee (AISC)". Faculty Advisor and student convener from our Institute are elected on AISC in year 2014-15, 2015-16 and 2016-17 consecutively.

File Description	Document
Any additional information	[View Document](#)

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Continuous development is attempted through IQAC at periodic intervals. It is responsible for directing, developing, providing and implementing guidelines to review curricular, instructional, teaching and learning materials. Latest teaching aids, techniques, activities, assessment tools and methodologies are used to enhance overall functioning to achieve goals of the Institute.

Two examples of institutional reviews and implementation of teaching learning reforms are outlined below:

1. **Continuous assessment system:**

To assess and keep handy records of student's performance, the methodology of maintaining continuous assessments sheets (CAS) in form of Academic Progress Record (APR) was developed and implemented. Initially Policies were framed for continuous assessment to initiate formative assessments and provide opportunities of success to students continuously. The strategies developed and policies framed time to time were laid down on APR booklet which was distributed among all faculties in the beginning of each semester. It provides the excellent way of disseminating all policies framed for students and staffs performance monitoring. All teaching and learning activities were recorded, assessed and reviewed by checking records of these APR continuously. It reflected number of lectures, practical's, expert lectures and other co-curricular activities conducted by faculty, students attendance and continuous assessments. Students and faculties were regularly monitored based on these APR. Heads of Department used to go through these APR in their weekly meetings and at the end of semester. APR was used to assess performance/self-appraisal reports of faculty. These APR also indicated students' all learning activities, internal continuous assessments and university results.

Depending upon the outcome achieved and the need raised; the policies, methodology, mode of APR are being upgraded time to time. **It evolved from many forms of hard copy in booklet form to soft copies on open software to commercial ERP.** It also gives ideas of periodical reformations occurred in assessment tools, techniques and methodologies used for evaluating faculty and students performance. Sample copies are attached which gives clear indications of frequent updating, reviewing policies, methodologies of teaching learning process, structures, methodologies of operations and measuring learning outcome (follow up taken by HOD and Principal).

2. **Academic Monitoring System**

Institute has system of monitoring of academic activities periodically. Number of lectures conducted by faculty members is monitored monthly and at the end of semester. Number of defaulter students is fortnightly monitored and makeup lectures are conducted for defaulter students. This resulted in substantial reduction in the number of defaulter students which can be demonstrated from the graph attached. Review of University examination results, internal examinations and student's feedback for teaching are also taken regularly. Some sample sheets are attached.

File Description	Document
Any additional information	[View Document](#)

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 68.2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
60	74	108	77	22

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document]()
Any additional information	[View Document]()
IQAC link	[View Document]()

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
e-copies of the accreditations and certifications	[View Document]()
Details of Quality assurance initiatives of the institution	[View Document]()
Annual reports of institution	[View Document]()

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

IQAC (formerly QAC) sets the benchmark for various activities and processes. It monitors the process and measures the performance against the set benchmark through Departmental Academic Committee. It proposes corrective actions in case of deviation. It prepares the policies, formats and documentations in order to cater the requirements of various certificating/accrediting bodies.

The Institute plans the teaching, learning and evaluation schedules by preparing academic calendar at Institute and Department level in-line with SPPU academic schedule. The teaching, learning and evaluation activities in the Institute are implemented according to the academic calendar, which is monitored by Academic coordinator as per the directives given by IQAC through Department Academic Committee.

Through interactive learning, collaborative learning and independent learning, efforts are being taken to build the student centric system. Utilization of resources like Virtual laboratories, NPTEL, MOOCs; enhances effectiveness of teaching learning process. Needs of students and Faculty with respect to advanced domain are fulfilled by organizing various events, training workshops etc. Faculty members are also deputed for attending need/interest based various courses, conferences symposium etc.

Before commencement of the term, Course coordinator prepares teaching and practical plan as per policies defined by IQAC. Guardian faculty member (GFM) takes the responsibility of mentoring the students on academic fronts. Whereas a Mentor is allotted to a small group of students who interacts and counsels the students to cope up with personal issues like finance, self-management and psycho-social issues.

Innovative teaching approaches like use of moodle, digital social learning platforms, knowledge wall, NPTEL video lectures etc. are adopted by faculty members in teaching learning process.

Learning outcomes:

Course outcomes are defined for each course and are made available to students. The progress of the students is monitored by course coordinator, GFM and Head of Department through continuous assessment. The intended Course outcomes are achieved by facilitating teaching, learning and assessment appropriately based on the course need.

IQAC (formerly QAC) has prepared an academic administrative report, which is furnished by each Department and submitted to IQAC for each term.

Institute has a very active and result oriented Students Chapters and Technical activity committee. This ensures that the students not only understand the concepts in class room teaching but also try their hands through projects and presentations.

Recognizing the need of better and trained Faculty, IQAC has initiated Faculty presentations and One Faculty One Industry relationship under Industry Institute Interactions. These initiatives enable Faculty members to assimilate the need of industry in order to disseminate the same to create employable students.

Some of the initiatives of IQAC contributing in incremental improvements are:

1. Department Academic Committee
2. Continuing Education and Staff Development
3. Counselling and Mentoring
4. Entrepreneurship Development
5. Enterprise Resource Planning
6. Industry-Institute Interaction
7. Research and Development
8. Students Development and Welfare

File Description	Document
Any additional information	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 5

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	1	0	0

File Description	Document
Report of the event	[View Document]
List of gender equity promotion programs organized by the institution	[View Document]
Any additional information	[View Document]

7.1.2

1.Institution shows gender sensitivity in providing facilities such as:
    1.Safety and Security
    2.Counselling
    3.Common Room

Response:

Safety and security:-The institute campus has a strict Security checks at entrance for all persons.Students and staff wear Identity card at all times. Institute has installed 68 CCTV Cameras at different locations such as Institute Entrance, Library, Workshop, Student Section, Principal's Office, Parking, all corridors and Computer Centre. Two Pan Tilt and Zoom (PTZ) cameras also installed near institute entrance and at Play Ground. Fire Rescue path and fire rescue coordinator for every floor has been appointed who will take care of rescue operation at the time of emergency. All corridors and laboratories are equipped with fire extinguishers. Karan group of companies, Pashan, Pune has been appointed for institute security services. Gents security guards are available for twenty four hours. Ladies security guards have been appointed at institute entrance. Nearby police station contact numbers and toll free help line numbers are displayed on notice boards at strategic locations including ladies common room. Pick up and drop facility is available for girl students at the time of late night events such as Ashwamegh Shivanjali etc,held in the institute.

Counseling: - The major objective of the counselling centre is to facilitate Academic, Emotional, Social

and cognitive development of the students hence to empower them in their learning and personal development. The institute has established Students Counseling Cell for the overall development of the students through interaction. Mentor (faculty) will take care of about 20 students. Students are allocated to specific mentor for entire semester. Specific issues related to mentee, identified by respective mentors during departmental counseling are forwarded to professional counselors. Institute has liaison with Dr. Thombare's Institute of Holistic Healing India for counselling facility. Professional gents and ladies counsellors are appointed at the institute level for addressing issues of staff and students.

Institute constituted college grievance committee in the year 2013-14. Total cases handled by committee are as follows

Year	Number of cases
2013-14	01
2014-15	--
2015-16	01
2016-17	03

The committee provides guidance and counseling to faculty

Common Room: -Girls common room is available with essential facilities like first aid box, bed, wash basin etc.

File Description	Document
Any additional information	[View Document](#)

7.1.3 Alternate Energy initiatives such as:

   1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 425652

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document](#)
Any additional information	[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 35.08

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 28512

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 81266

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Institute practices the waste management including solid waste management, liquid waste management and E-waste management.

Solid waste management:

Institute practices the segregation of Solid Waste and its effective management in the campus. The collected waste is segregated at the source of the generation. The waste bins are placed separately for dry and wet waste at every corner of the corridor, wash rooms and common room. The dry waste bins are also placed in laboratories, library, classrooms, etc. The dry and wet waste is handed over to municipal waste collection agency for further treatment.

Old newspapers, used papers and journal files, workshop scrap etc. are given for recycling to external agencies.

Liquid waste management:

Liquid Waste from the wash rooms is conveyed to the municipal sewage line. A wastewater from laboratories is treated through proposed novel cavitations.

E-waste management:

Due to advancement in technology, various types of electronic gadgets are being manufactured and marketed. These products become outdated after few months or years. Since these products contain some kind of hazardous materials like lithium, lead, zinc, etc. improper disposal of these products is harmful for living beings. Therefore, management of E-waste is an important issue. E-waste management is done by collecting all the electronic waste generated in the institute premises at a central storage space allocated for the same and sent for recycling through an E-waste recycler.

File Description	Document
Any additional information	[View Document](#)

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Institute has rainwater harvesting system in place to collect the rainwater. Due to extensive urbanization, water is increasingly becoming a scarce natural resource in metropolitan cities like Pune.

The catchment area is the roof of institute building. Rooftop rain water collected on the terrace of institute building is collected through adequate pipe system from different parts of the terrace. All the rain water thus collected is diverted to common channel and conveyed for storage in an underground storage tank. The underground tank has capacity to store 36,000 liters of rainwater during monsoon season. This helps to recharge the tubewell dug in the campus as well as the ground water. It will increase the ground water table of the surrounding premises. The water stored in the underground sump is drawn through a pump and used for gardening, maintaining of lawn etc.

File Description	Document
Any additional information	[View Document](#)

7.1.7 Green Practices
- **Students, staff using**
  a) **Bicycles**
  b) **Public Transport**
  c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

The rapid development in infrastructure at local, regional and global level has led to various environmental issues. To support and build healthy environment it becomes necessary to adopt green practices. Being a

leading institution of higher Technical Education, Institute initiates the Green Campus activity which will support environmental sustainable development. 'The Green Campus' actively promote the various programs for the environment protection and sustainability such as, use of bicycles, public transport, and pedestrian friendly roads, promotes plastic free campus, paperless office, green landscaping with tree and plants.

- **Use of Bicycles, Public Transport, Pedestrian friendly roads**

The institute is located at heart of Pune city. Therefore institute is having many advantages as compare to other institutes. The Railway station and Bus stands (PMPML & MSRTC bus stop) are close to institute campus which gets benefits for institute students as well as institute staff. Railway local and City bus routes time table is displayed on main notice board by which students and staff will plan their journey accordingly. All subside area of Pune is well connected with the campus. Institute encourages all faculties and students to use public transport which will save energy resources and reduce environmental pollution. All nearby residing staff and students use bicycles and pedestrian friendly roads to reach the institute and avoiding their personal vehicles. Most of faculties those are residing at same location, are pooled their vehicle to reach institute which saves fuel. Institute provides Bus facility to hostelite students.

- **Plastic-free campus**

To avoid use of plastic preferences are given to use non-plastic items in the institute campus like institute canteen, store, office etc.

- **Paperless office**

Institute purchased ERP (Enterprise Resource Planning) software system and implemented it for academic, training & placement and administrative works to reduce paper work. EPR software is effectively used by students, staff and faculties to perform their daily work and updates, which reduces the paper work and save time. In addition to this, Notices and Circulars by Principal and admin office are conveyed to all by e-mails and SMS.

- **Green landscaping with trees and plants**

Institute NSS unit regularly carried out Tree plantation activity. This activity helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among students. Dedicated staff is allotted for gardening and watering of all trees and plants. To save water drip irrigation system is also installed at some locations.

File Description	Document
Any additional information	[View Document](#)

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 5.01

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
50.94	47.46	41.77	31.51	25.72

File Description	Document
Green audit report	[View Document](#)
Details of expenditure on green initiatives and waste management during the last five years	[View Document](#)
Any additional information	[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

   1. **Physical facilities**
   2. **Provision for lift**
   3. **Ramp / Rails**
   4. **Braille Software/facilities**
   5. **Rest Rooms**
   6. **Scribes for examination**
   7. **Special skill development for differently abled students**
   8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	[View Document](#)
Any additional information	[View Document](#)
link to photos and videos of facilities for Divyangjan	[View Document](#)

31-07-2018 01:30:58

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 19

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	2	7	3	2

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	[View Document]
Any additional information	[View Document]

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 14

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	2	4	4	1

File Description	Document
Report of the event	[View Document]
Details of initiatives taken to engage with local community during the last five years	[View Document]

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	[View Document](#)

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide URL of website that displays core values	[View Document](#)

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	[View Document](#)
Any additional information	[View Document](#)

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide link to Courses on Human Values and professional ethics on Institutional website	[View Document](#)

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	[View Document](#)

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 29

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The All India Shri Shivaji Memorial Society was established by Rajarshi Chhatrapati Shahu Maharaj of Kolhapur in the year 1917 with the vision of providing military education to children from lower income groups.Howeverwith time, All India Shri Shivaji Memorial Society now renders Military, Technical, Engineering, Catering and Management Education to the students.

Institution organizes every yearvarious NationalFestivals and birthanniversaries of the great Indian personalities which are as follows:

Republic Day and Independence Day -

Every year institute celebrate Republic Day and Independence Day with great pomp where all staff and students from Diploma, Engineering and School gather at one campus along with the Office Bearers. The program starts with Flag Hosting at the hands of Chief Guest usually a personality from Social-Political Background followed by National Anthem. March Past, Patriotic songs, and various acts and skills are presented to the gathering by the school students.

Mahatma Gandhi birth anniversary

Mahatma Gandhi is referred to as National Father who devoted his whole life preaching Truth and following Ahimsa. The NSS volunteers organizes the mass pledge in AISSMS COE in accordance with the Prime Ministers' urge for 'Swaachh Bharat Abhiyaan', Also they willingly come on the grounds with the brooms and do sweeping and cleaning on the institute grounds.

Shahu Maharaj Jayanti

The Chhatrapati Shahu Maharaj Jayanti program is organised every year by All India Shri Shivaji Memorial Society in campus. The entire sister concern institute gathers on the common ground with the pandal set up for felicitation of staff and students who have accomplished higher qualification or done remarkable work in their respective fields.

Shivaji Maharaj Jayanti

Shivaji Maharj a great Maratha warrior and administrator, is indeed a source of inspiration to All India Shri Shivaji Memorial Society and to all Indians. Institute celebrate Shivaji Maharaj Jayanti every year on February 19 where rallyis organised and acts are displayed to commemorate our respect towards Maharaj.

Teachers Day

Since 1962 the day commemorates the birthday of Dr Sarvepalli Radhakhrishnan, a great teacher and a staunch believer of education, known for his contribution towards the education system in India. The NSS Unit of AISSMS COE College celebrates the Teacher's Day on September 05. The program begins with the Sanskrit Prayer; later NSS volunteers provide brief introduction and significance of celebrating Teacher's Day. The chief guest addresses the gathering and empathises the role of teachers in everyone's life. Teachers' are noble contributors to the society to mould and nurture responsible citizens to the Nation. Donating Blood is the best way of giving back to the society; hence institute organizes the blood donation Camp on this day.

Engineers Day

15th September is celebrated as Engineers Day in honour of Bharat Ratna Awardee Mokshagundam Visvesvaraya, an eminent engineer. The institute organise Engineering Today (ET) and Science Models are exhibited for engineering and school students.

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The institution maintains transparency in financial functions by providing financial information on institute website. The budget provision is made for technical event like Engineering Today (ET), Guest Lecture, Industrial visits etc. and also for cultural activities like Ashawmedh, Shivanjali etc. Institute also provide budget for inter institute sports and cultural activities like Shahu Trophy, Firodiya Karandak etc. All the funds are utilized by students. Institute provides financial transparency by maintaining Acquittance roll for each financial year. Financial audit is done by third party.

Institute and Departmental Organization Chart is available before commencement of academic year for administrative purpose. Academic calendar is prepared and displayed before commencement of term. The Academic transparency is maintained through Enterprise Resource Planning (ERP) system. Faculty share assignments, Lab Manuals, MCQs and Question banks with the students through ERP. Every Student having ERP Login ID and by using this student can get their academic performance (Attendance, Unit test Marks). The defaulter list is displayed on the notice board periodically. Continuous assessment was done and communicated to the student. Term work marks are also displayed on Notice Board. Feedback from

students, alumni, Stake holders are taken regularly, which is used for effective mechanism of the institute.

Free parking facility is providing for students, staff and visitors. Institute's infrastructure like playground is utilized for social, sports and cultural programs.

In addition to above the Institution have a Quality Assurances and standard operating procedure manual for Information of Staff and Students which clearly defines various procedures about academics, Finance, Administration and Overall working of the institute.

File Description	Document
Any additional information	[View Document]()

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Title of the practice: One Faculty One Industry Drive

Objectives of the practice:

1. To have association with wide spectrum of industry
2. To establish long term association with industries in an organised manner
3. To enrich the Teaching-Learning process with the support from the Industries
4. To initiate need based collaborative programs

The Context: Industries being the major stake holder for technical institution, Industry – Institute interaction is an indispensable requirement to enrich the Teaching-Learning Process. Institute has initiated One Faculty One Industry Drive so that each faculty could get opportunity to interact with their domain of interest which would consequently broaden the spectrum for industrial exposure to students. One to one contact for the industry from institute would be highly beneficial to strengthen the interaction with industry.

The Practice:

Each faculty of the institute identifies an industry as per the field of interest and initiates various activities that provide industrial exposure to the students and faculty as well. The Institute appoints an administrative committee that coordinates this practice.

Problems encountered and resources required:

Involvement of individual faculty would strengthen the interaction with wide spectrum of industries in an organized manner. For implementing this practice, Institute offers support by providing funding, travelling allowances etc. to be in association with the industries and for organizing various activities.

Evidences of success:

1. The MoU signed have been significantly improved.
2. Significant improvement in interaction with industry through industrial visits and expert talk by industry experts.
3. Improvement in Industry sponsored Live Project at UG/PG level.
4. Formation of OrganicBots - AISSMSCOE incubation centre.

Title of the Practice: Innovative Library

Objective of the Practice: Library aims to provide conducive environment for teaching learning and to support academic curriculum, educate and assist institute students and staff, abreast them about national resources like National Digital Library and assortment to meet the needs of institute.

The Context: Library regularly organizes various activities to inculcate reading habit in students for their healthy nurturing. Despite of rigorous academic schedule library is successful in averting the students towards these programs. Library also provides with mail alert services and renders online platform.

The Practice: The Library aspires to beckon more students towards Library usage and "Best Library Reader Award" is given to users during annual Cultural function that would motivate other students to heed towards Library and make maximum benefit. Organizing National, International Conferences, Workshops and assists in branding the institute's recognition globally. Library has initiated NPTEL local chapter at institute level. Author meet program are organized to give chance for interaction with authors.

Problems Encountered and Resources Required:

Since the academic schedule is stringent for the students less participation from their side is observed. Students and faculties active participation is required.

Evidence of Success:

1. Institute is at 17th position among 376 Active local NPTEL chapters at national level.
2. Number of library blog hits are 41,043.
3. The librarian is selected as 'DOAJ' Indian Ambassador because of her contribution towards the promotions of Open Access.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Institute vision is to impart quality education, by virtue of which student contributes in technological as well as societal growth and welfare. In-line with the vision, priority and thrust, the institute consistently provides motivation, support and platform for students to inculcate entrepreneurial, leadership, project management and multidisciplinary skills for enrichment of technical competency. Institute is distinctive in providing global platform to students' teams to participate in national and international competitions like BAJA, SUPRA, Go-Kart, Effi-Cycle, Drone, Robo, Aero Design etc. This platform helps the students to deal with the real life problems by conceptualising, designing, fabricating and testing the prototype. The Institute provides necessary financial assistance and resources required every year to strengthen such activities.

 This venture began to gain the essential experience and confidence by participating in various national and international level events. In SAE BAJA Competition, our team (Resonance Racing) secured 1st rank in West India(2009) held at Pithampur (MP) and also recorded the 'Fastest Lap' in Endurance Race(2014). Our team secured 1st rank in SAE SUPRA competition held at Chennai (2011). Consistently performing well in the competitions allowed the students to apply and challenge themselves even at the International Platform.

Team Garudashwa is one of the prime student team which participates in various national and international Aero Design Competitions. Team established in 2015, consecutively representing the institute among all Indian teams in SAE International Aero Design Series held every year in United States. Simultaneously, the team creates awareness amongst the students from various institutes and generates funds by conducting workshops.

Achievements of team Garudashwa:

International Level

1. In 2016, the team participated in SAE International Aero Design West Series held at Van Nuys, California, USA for Regular Class. It was the only Indian Team to complete the flight event successfully and stood 28th overall and 20th for technical design report globally. Moreover, team secured 20th for carrying the maximum payload based on design configuration.
2. In 2017, the team participated in SAE International Aero Design East Series held at Lakeland, Florida, USA for both Regular and Advanced Class.

Regular Class: Team stood 26th globally for the overall performance and secured 11th rank globally, 1st amongst Indian teams for Technical Presentation.

Advanced Class: Team ranked 14th globally for overall performance &technical presentation and 15th globally for technical design report.

National Level:

In 2017, the team participated in SAE ISS Aero Design Challenge held at Chennai for the Regular Class. Team secured 1st rank for overall performance and 3rd rank for Technical Design Report amongst 100 Indian Teams. Team rewarded with a prize of Rupees One Lakh and a trophy.

Outcome:

Develop Entrepreneurship qualities and provide good Placements is the first priority of the institute. Providing such innovative platform, institute's consistent exertion is to guide students in making meticulous career choice, identifies the best available opportunities and developed ability to grab them. Institute has developed and maintain proper liaison with top rank national & multinational corporate recruiters.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5. CONCLUSION

Additional Information :

The Institute has adequate infrastructure, supporting academic facilities, state of the art laboratories with well qualified and experienced faculty members with good retention ratio. The Institute gives highest priority to teaching- learning process. Emphasis is given on extra and co-curricular activities for holistic development of students. The attempts to deliver the best quality in Teaching Learning and overall development of our students, Faculty and Staff members are achieved through following initiatives:

1. One faculty one Industry drive to enhance industry institute interaction
2. The Institute has made collaboration with foreign organization such as Staffordshire University, Huddersfield (UK), University of IOWA (USA), IOWA State University IOWA (USA) and VESBE (Germany)
3. Various students chapters of professional bodies
4. Technical clubs to carryout interdisciplinary projects
5. Extension activities
6. Entrepreneurship development cell
7. TRIZ Chapter in association with TRIZ Association of Asia, the only one in Asia. It is an International methodology of Inventive problem solving.

Concluding Remarks :

Institute has well framed vision and mission, considering the needs of the society. Best academics, infrastructure, research laboratories, industry-interaction, self-learning and co-curricular and extra-curricular activities are some of the special features which cater to the comprehensive development of the students.

The governance comprising of Governing Council, Governing Body, College Development Committee (Formerly LMC), Departmental Advisory Board, Internal Quality Assurance Cell, Institute Development Committee, Academic Monitoring Committee and various institute level committees. These all play significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stake holders.

The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by HODs, Administrative Head, Section in-charges and coordinators of various committees in decision making process at the Institute.

Institute executes strategic planning from time to time for producing quality engineers and overall growth of the institute

Institute has well established organizational structure to execute smooth functioning of administrative and academic processes. AISSMSCOE has deployed e-governance in all the areas of academic processes to ensure better academic planning and monitoring.

Institute regularly conducts training to staff and faculty members for implementation of quality procedures. External audit by various agencies like DTE, AICTE, SPPU, NBA and internal audit is undertaken periodically to improve institutional activities.