



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

## **AISSMS'S INSTITUTE OF INFORMATION TECHNOLOGY**

**KENNEDY ROAD NEAR RTO PUNE 411001**

**411001**

**[www.aissmsioit.org](http://www.aissmsioit.org)**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

All India Shri Shivaji Memorial Society (AISSMS) was founded by Late Chhatrapati Shri Shahu Maharaj and H. H. Shri Madhavraoji Scindia in 1917. The society is dedicated to the noble cause of military, general, technical and management education in India. Twenty Institutions are under the ambit of the society. The society management is very pragmatic and progressive.

The All India Shri Shivaji Memorial Society's Institute of Information Technology (AISSMS IOIT), established in 1999, is a self-financing Institution and is affiliated to the S. P. Pune University. It is approved by the AICTE, New Delhi and the Director of Technical Education, Government of Maharashtra. The institute has well qualified and dedicated staff with good infrastructure facilities for UG and PG courses in all the branches, namely Computer Engineering, Electrical Engineering, Instrumentation Engineering, Electronics and Telecommunication Engineering and Information Technology.

**The institute is accredited with "A" grade by National Assessment and Accreditation Council (NAAC).** The institute has received accreditation from National Board of Accreditation, New Delhi, for the Electronics Engineering, Electrical Engineering and Instrumentation Engineering courses. The institute has also received **Permanent Affiliation from Savitribai Phule Pune University**, for Computer Engineering, Electrical Engineering and Instrumentation Engineering. The institute has **received award for 'Best Private Engineering Institute 2015'** from ISTE, New Delhi. It has also **received 'Engineering Education Excellence Award 2015'** from Indo Global Chamber of Commerce Industries and agriculture. The institute is **recognized by AICTE for "BEST PRACTISES IN EDUCATION" in 2018.** The Institute has been **recognized in the '10 Best Private Institutions in India'** by Knowledge Review Magazine Survey in 2018 and has been awarded as **Best College in Pune (2017-18)** by Fire and Security Association of India. **It has been recognized among the Best Private Engineering Institute (2019-20) in a Survey conducted by Outlook (Rank 79) and Week Magazine (West-19 and All India 103).**

### Vision

To uplift the common masses by rendering value added education.

India has the potential to be a global technology leader. One of the important factors that will contribute greatly to the future success of Indian industry and economy is the growth of engineering education. The Institute takes continuous efforts to meet current requirement of the market by adapting innovative teaching learning methodologies, updating infrastructure resources and facilities, conducting employability skill development activities etc. These activities are adding values in technical development of the students.

### Mission

Empowering Society through dynamic education.

The activities for value added education mentioned above in turn increase the employability of the students, so

that they can serve the dynamically changing industrial needs in a better way, leading towards empowerment of the society.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- Historical background and royal legacy.
- Accredited by NAAC and NBA.
- Excellent final year results with university rankers.
- Effective outcome based teaching and learning practices.
- Value addition activities for skill and employability development.
- State-of-the-art infrastructural facilities.
- Centre of excellence in three departments.
- Outcome oriented industry linkages.
- Young, dynamic, experienced and motivated faculty.
- Well implemented student counseling scheme.
- Significant achievements in professional body activities.
- Significant contribution in research publications.
- Good faculty retention.
- Remarkable participation and achievements in co and extra-curricular activities by students.
- Strong sense of social responsibility among students and staff.

### Institutional Weakness

- Less number of patents.
- Limited consultancy and testing activities.
- Less number of faculties with Ph.D. qualification.
- Limited support from Alumni.
- Less number of entrepreneurship development activities.
- Less number of active international collaborations.

### Institutional Opportunity

- Scope for increasing activities related to testing, consultancy and patents.
- Scope for improvement in number of entrepreneurs.
- Scope for joint academic and research programs with international universities.
- Scope for development through alumni contributions.

### Institutional Challenge

- Exponential growth in the number of engineering colleges makes it a challenge to attract academically strong students.
- Increased scope in other fields has reduced the number of students opting for engineering education.

- Limited scope for designing curriculum and coping with employability skill requirements as per changing needs of industry.
- Maintaining balance between quality of teaching-learning and administrative work.
- Networking and strengthening the relations with stakeholders.
- Deals with the issues related to millennials.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

AISSMS's Institute of Information Technology is a self-financing institution affiliated to the Savitribai Phule Pune University. The vision, mission and objective of the institute are communicated to all the stakeholders. The Institute follows the curriculum designed by the University.

The University designs curriculum by conducting syllabus revision workshops wherein around 25% faculty members who are either members of Board of Studies or senior faculty members contribute in designing the structure and syllabus.

Institute prepares annual academic planner based on the academic calendar of the University and then it is circulated to all departments. Each department prepares the academic calendar in line with the Institute's calendar. The Institute adheres to the academic calendar which is monitored by the central coordinator.

**All the programs are Choice Based Credit System and offer elective courses.** Academic flexibility and bridging the gap between curriculum and industry is achieved by conducting workshops, seminars and signing MoUs with leading industries.

The Institute not only ensures that 100% syllabus is taught to the students but also lays emphasis on delivering content beyond syllabus. In addition, seminars, workshops, industry/field visits, expert lectures and add on courses are also organized to help students get an insight of the current trends and practices in industry. Value added courses like soft skills/communication skills etc., are also conducted in order to achieve holistic development of the students and inculcate professionalism in them. Approximately more than 400 value added courses were organized in last 5 years and 81.49 % students were benefitted. Institute has made it mandatory for the students to undergo the internships/training in industry/corporate company to enhance their employability. 71.49% students have undertaken project work/field work/internships in latest completed academic year.

The Institute invites feedback from all the stakeholders which is collected online and based on the analysis the corrective measures and progressive steps are taken by the institute.

Institute takes initiative to sensitize and inculcate values, rights, duties and responsibilities of citizens through activities mainly organized by the committees like National Service Scheme, Student Development/Welfare Organization, Internal Complaints, Staff/Student Grievance, SC/ST/OBC Reservation, students with disabilities, Anti-ragging, Discipline and the departments.

### Teaching-learning and Evaluation

In the Institute 80% of the admissions are carried out through government quota and 20% through the institute level quota on merit basis. Institute's excellence in teaching and learning is achieved by recruiting competent teaching faculty members. In order to have efficient conduction of teaching throughout the semester meticulous planning is done prior to the commencement of the semester. Academic monitoring committee regularly monitors proper execution of all academic processes.

Institute conducts Psychometric test of individual students which is a scientific assessment tool to analyze student's capabilities, aptitude, personality and interests. To identify the students as advanced learner or slow learner, entry level analysis of each student is done. Based on this analysis, relevant activities are undertaken as per need.

The mentor-mentee system helps the student to resolve the issues related to academics/personal/career etc.

**All the teachers** follow latest teaching and learning methodologies **such as Active, collaborative, inquiry-based, problem based, peer, experiential, blended learning and flipped classroom.** 100% of the teachers use ICT tools to help students to improve academic performance and employability skills. All the teachers conducted online classes through MS teams platform during COVID-19 pandemic. To support students' remote learning, almost 1000 videos prepared by the teachers were shared through institute's YouTube channel. The resource material was shared through Learning Management Systems like Google classroom, Moodle and MS teams etc.

The learning outcomes are assessed at the end of every semester to identify the needs for improvement in T-L process.

The formative evaluation process is used to make the teaching-learning process more effective. The institute has the policy of having transparency in the internal assessment. The examination pattern, marking scheme and term work assessment scheme are communicated to the students at the beginning of the semester. Tests and tutorials, remedial classes are conducted on a regular basis. The grievances related evaluation are addressed through the Chief Examination Officer at institute and University level.

The institute has consistently maintained results above 90% for the final year.

Students' feedback on T-L process is collected and analyzed to identify the areas of improvement. Corrective actions are planned accordingly.

### **Research, Innovations and Extension**

The Institute has been recognized as research center for the faculty of Electronics Engineering under the affiliation of Savitribai Phule Pune University. 25 faculty members are recognized as Ph.D./PG research guides.

Institute has R&D cell, Entrepreneurship Development (ED) cell and incubation center for innovation, development and incubation activities. The Institute promotes consultancy and research work which resulted into revenue generation of Rs. 10 Lakhs. The institute has policy to –

Share revenue between institute and the teachers for consultancy, testing

Provide seed money to the startups and entrepreneurs which resulted into 43 startups/entrepreneurs.

A Technical Club has been set up with necessary facilities. The students have free access to work here during extended hours. Students are encouraged to design and develop projects to prove their skills through various technical competitions. Creation and transfer of knowledge are focused through activities like, publications of research papers/industrial projects/seminars/innovation/consultancy and development activities. To develop research eco system, institute provides sponsorship to students and teachers for participating in various research activities.

Institute has initiated iConnect (Industry Institute Individual Connect) program for strengthening interaction between institute and industry which involves contribution by every individual teacher. Every teacher connects with at least one industry to organize visit/hands on training/expert lecture/internships/sponsored project/placements. It is made mandatory for third year students to undergo internship. Through these activities, Institute has received 5 industry sponsored Centre of Excellences and has signed 44 memorandum of understanding.

Every department has research projects funded by government/non-government agencies adding to total grant of Rs. 69.23 Lakhs.

Faculty members have published 426 research papers in the UGC recognized Journals, 335 in other reviewed journals and 160 books/conference publications.

Institute has conducted 132 workshops and seminars on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship development.

The extension activities carried out by the institute has made a very good impact on its students, employees, as well as on the regional community and the environment. The institute believes in giving back to the neighborhood community, it promotes enrichment programs through NSS, SWO, students associations and professional society students' chapters. Total 108 activities were conducted through this program.

### **Infrastructure and Learning Resources**

The institute adheres to the norms provided by AICTE and affiliating University to provide infrastructure to facilitate teaching and learning. Physical infrastructure consists of 31 ICT enabled classrooms, 07 tutorial rooms, 47 laboratories and 01 seminar hall. Laboratories are equipped with state-of-the-art equipment like UV-VIS Spectrophotometer, PLC, Distributed control system, Universal Process Control Trainer, Spectrum/Logic/Power Quality Analyzer, open source/latest proprietary software such as AUTOCAD, ETAP, SCADA, LabView, Xilinx, Microwind, Powersim etc.

Institute has 1,72,160 sq. feet playground and necessary equipment for outdoor games like Cricket, Football, Kho-Kho etc. and necessary equipment for indoor games like Table tennis, Chess, Carrom, Judo, Gym and Yoga.

The college central library is 509.12 sq. meter in size and has a seating capacity of 200 students. Library is automated with System for Library Information Management software - version 21. Books are arranged department wise and Dewey decimal classification tool is used for books' classification. Barcode system is used for maintaining the records of the daily transactions. Open Public Access Catalogue link has been

provided for searching books and other resources available in the library. Central library also maintains Institution Repository by using Dspace software. Library has subscriptions of e-journals/books and membership of e-ShodhSindhu.

Institute has **763** computers with 150 Mbps fiber optic internet connectivity along with 10 Mbps standby backup link and Wi-Fi facility. Centralized firewall “Cyber-roam” is used for network monitoring/management and internet security. Three layer switching LAN is available in campus.

Enterprise Resource Planning is deployed for effective academic/administrative planning, execution, monitoring and analysis with 40+ modules. Institute has licensed MS teams software for conduction of online classes and meetings.

Institute has adequate budget/expenditure for purchase and maintenance of infrastructure. Laboratories are maintained by means of annual maintenance contract (AMC) for computers, peripherals, networking, UPS etc. History card is maintained for all the equipment. Minor maintenance is carried out by the laboratory assistants/technicians/workshop staff. Maintenance work of major equipment is assigned to an external agency through work order. Maintenance of elevators, firefighting system, water tanks/coolers, RO plant, DG set, garden, pest control and sanitization of the entire building is done through AMC.

### **Student Support and Progression**

The Institute has around 2279 students, from diverse backgrounds. Institute supports all the scholarships and free-ships provided by the Government and average 61% of the students availed benefits in last five years.

Institute takes initiatives in capacity building and skills enhancement such as soft skills, language and communication skills, life skills and ICT/computing skills.

The Training & Placement Cell of the Institute provides career guidance and organizes campus recruitment drives. It prepares the students for placement activities through various initiatives such as online assessment tests and Campus to Corporate Readiness Program. It has 4 levels starting from first year to final year. It covers all the required skills such as aptitude, communication skills, personality development, resume writing, group discussion etc. This has resulted into increased placements of 353 single offers and 560 with multiple offers with highest package of 12 lakhs in the year 2019-20.

The study circle of institute arranges special coaching for students aspiring for competitive examinations. This has resulted into one of students securing 63rd position in the UPSC. The Development of Entrepreneurial skills is encouraged through various entrepreneurship development activities carried by the Innovations, Incubation – Entrepreneurship Development Cell (IIEDC). This effort has resulted into 43 startups/entrepreneurs.

The institute has a strong mechanism for resolving grievances related to gender and human rights through Internal Complaints Committee and an anti-ragging committee.

To ensure the overall development of students the institute regularly conducts co-curricular and extracurricular activities. The institute organizes Alacrity – a national level techfest every year which is recognized by Times Magazine as one of top ten students' events. The institute also participates in state level drama competition like “Purushottam” and “Firodiya Karandak”. The departments also organize various co and extracurricular activities to provide a platform to identify the talents of new enterants. 42 students have received appreciation and awards by participating in various state and national level competitions.

The institute has a registered Alumni Association since 2009. The alumni contribute regularly by sharing their experiences with the present students by mentoring them. Alumni also provide internship and job opportunities to the existing students.

### **Governance, Leadership and Management**

The institute has inculcated the practice of decentralized and participative Management with well-established mutual relationships among all the stakeholders. Effective leadership is visible through designing, planning, implementing and executing quality policy of the Institute to achieve its Vision and Mission. Institute has a well-defined procedure to monitor effective and efficient utilization of available financial resources for infrastructure development and academic processes.

Institute has well defined organizational structure for effective functioning of its perspective/strategic plan. Some of the major policy decisions which reflect the effective and efficient functioning are as follows:

- Permanent affiliation and accreditation of all branches.
- Establishing centre of excellence.
- Autonomy for the Institute.
- PG courses and research centre.
- Promotion scheme for research, testing, consultancy and higher education.
- Foreign collaborations.
- Cash awards for best teaching and non-teaching staff.

Institute has implemented e-governance in the areas of administration, finance, accounts, student admission, support, examination etc.

Institute has welfare schemes for teaching and non-teaching staff such as EPF, gratuity, co-operative credit society, group insurance, uniform for class 4 staff, maternity leave etc.

The institute empowers, encourages and financially supports its staff to participate in various seminars/workshops/conferences/trainings to enhance their knowledge and skills. Almost 100% teachers have been benefitted. Institute regularly organizes professional development/administrative training programs for teaching/non-teaching staff. Institute has received grants/technical support for collaborative programs from Savitribai Phule Pune University, IEEE/IETE/ISTE, IIT Bombay etc.

Institute follows the Performance Based Appraisal (PBA) System prescribed by Savitribai Phule Pune University/ AICTE. Every faculty member self-assesses his/her performance which is verified by the head of department and Principal. Based on the PBA scores, the institute rewards the best teacher with cash prizes every year on the occasion of Teachers' Day.



IQAC of the institute has 42 committees under its ambit to assess, analyse and ensure quality in teaching – learning, R&D, industry interaction, training and placements. IQAC conducts internal academic/administrative audit to ensure all the academic processes are carried out regularly. It organizes workshops/conferences/seminars in collaboration with other organizations for overall development of the staff and students. IQAC guides and facilitates the teachers for participation in NIRF and preparation for accreditations.

### **Institutional Values and Best Practices**

The institute is committed to respect equality and diversity in each individual for age, gender, race, cultural background, learning level, experience, skills, beliefs and sexual orientation. Institute's Grievance committee and feedback system always cater any such issues on priority basis and take necessary actions whenever required. To promote equality, institute provides equal opportunity to male/female staff and students in administrative/teaching/co-curricular/extracurricular/sports activities and deputation to the courses, programs, higher studies, appointments, committees, placements etc.

The Institute organizes various programs under the National Service Scheme(NSS) and Student Development/Welfare Organization(SDO/SWO) to sensitize students about gender equity. Institute has also taken efforts for providing inclusive environment to enhance harmony towards cultural, regional, linguistic, communal, social, economic and other diversities. Institute has taken initiative to sensitize and inculcate values, rights, duties and responsibilities of citizens through activities mainly organized by NSS and SDO/SWO. The Institute has a friendly campus for differently abled students with facilities like ramp, elevators, and direct access to all classrooms and labs.

In order to save energy, institution has facilities such as solar energy (300 KW), wheeling to the grid, sensor-based energy conservation, use of LED bulbs, biogas plant etc. Water conservation facilities available in the institution include rain water harvesting, bore-well recharge, construction of tanks and waste water recycling.

Our sprawling green campus in city center has adopted environment-friendly policies with regard to plantation, solid/liquid/ hazardous chemicals/E waste management, use of renewable energy sources and restricted use of plastic, pedestrian friendly ways. The Institute has carried out green audit and energy audit.

Institute has prepared quality assurance manual which prescribes the Standard Operating Procedures(SOP) and code of conduct for students, teachers, administrators and other staff.

The Institute has introduced many innovations in teaching -learning process which have created a positive impact on enhancing students' learning. The best practices include multimodal communication skill development, assistive technology initiatives, 50:10 module, peer study group, academic monitoring, student mentoring, feedback system, reward system, technical clubs, study circle for competitive exams. These practices ensure continuous improvement in the performance of students and faculty members and help to achieve the vision and mission of the institute.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	AISSMS'S INSTITUTE OF INFORMATION TECHNOLOGY
Address	Kennedy Road near RTO Pune 411001
City	Pune
State	Maharashtra
Pin	411001
Website	<a href="http://www.aissmsioit.org">www.aissmsioit.org</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Pradeep B. Mane	020-26058877	9420918444	020-26057636	principal@aissmsioit.org
IQAC / CIQA coordinator	Mousami Vanjale	020-26057983	9423872768	-	iqac@aissmsioit.org

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 minority institution	No

Establishment Details	
Date of establishment of the college	01-08-1999

**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	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC	15-02-2017	<a href="#">View Document</a>
12B of UGC	15-02-2017	<a href="#">View Document</a>

**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	<a href="#">View Document</a>	15-06-2020	12	

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes <a href="#">autonomydoc_1613294247.pdf</a>
If yes, has the College applied for availing the autonomous status?	Yes

**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?	No

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Kennedy Road near RTO Pune 411001	Urban	2.5	18063

## 2.2 ACADEMIC INFORMATION

NAAC

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Instrumentation Engineering	48	Higher Secondary Certificate	English	60	15
UG	BE,Computer Engineering	48	Higher Secondary Certificate	English	120	120
UG	BE,Information Technology	48	Higher Secondary Certificate	English	60	60
UG	BE,Electronics And Telecommunication Engineering	48	Higher Secondary Certificate	English	120	120
UG	BE,Electrical Engineering	48	Higher Secondary Certificate	English	60	51
UG	BE,Artificial Intelligence And Data Science	48	Higher Secondary Certificate	English	120	120
PG	ME,Electronics And Telecommunication Engineering	24	Bachelor of Engineering	English	18	3
PG	ME,Electrical Engineering	24	Bachelor of Engineering	English	18	2
Doctoral (Ph.D)	PhD or DPhil,Electronics Engineering	36	Master of Engineering	English	30	7

### **Position Details of Faculty & Staff in the College**

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	15				23				78			
Recruited	3	0	0	3	4	4	0	8	41	37	0	78
Yet to Recruit	12				15				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				27			
Recruited	0	0	0	0	0	0	0	0	13	14	0	27
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				57
Recruited	53	1	0	54
Yet to Recruit				3
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				33
Recruited	25	6	0	31
Yet to Recruit				2
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	0	0	2	3	0	2	4	0	14
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	26	29	0	55

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	2	1	0	5	2	0	10
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	23	14	0	37

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
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

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>	
	0	0	0	0	0

**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
UG	Male	396	7	0	0	403
	Female	138	4	0	0	142
	Others	0	0	0	0	0
PG	Male	3	0	0	0	3
	Female	1	1	0	0	2
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

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

<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	27	29	31	29
	Female	14	14	19	20
	Others	0	0	0	0
ST	Male	1	2	4	1
	Female	0	0	0	1
	Others	0	0	0	0
OBC	Male	80	72	74	76
	Female	43	42	37	37
	Others	0	0	0	0
General	Male	117	183	165	21
	Female	61	102	104	18
	Others	0	0	0	0
Others	Male	101	35	42	170
	Female	44	18	17	100
	Others	0	0	0	0
<b>Total</b>		<b>488</b>	<b>497</b>	<b>493</b>	<b>473</b>

## Extended Profile

### 1 Program

#### 1.1

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

2019-20	2018-19	2017-18	2016-17	2015-16
411	405	393	385	357
File Description		Document		
Institutional data prescribed format		<a href="#">View Document</a>		

#### 1.2

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
8	8	8	8	8

### 2 Students

#### 2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2279	2226	2228	2332	2441
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
165	173	166	165	170

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 2.3

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

2019-20	2018-19	2017-18	2016-17	2015-16
600	522	506	586	581

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 3 Teachers

### 3.1

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

2019-20	2018-19	2017-18	2016-17	2015-16
121	123	158	162	149

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
115	115	151	151	147

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 32**

**4.2**

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

2019-20	2018-19	2017-18	2016-17	2015-16
178.31	152.59	129.35	168.37	123.19

**4.3**

**Number of Computers**

**Response: 763**

NAAC

## 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 institution meticulously plans for effective implementation of the curriculum. The detailed process is stated below:

1. **Planning for the Term:** All the departments prepare academic calendar in line with the academic calendar prescribed by the University which consist of all technical and nontechnical activities in detail.
2. **Finalising of faculty member for each subject and Electives to be included in next semester and Preparation of Timetable:** Before the end of the term, each faculty member submits his/her subject preferences to the Head of Department (HOD). Likewise, the electives are floated to the students to decide their choice to finalise and plan in advance for the electives. As per preference of subject, HOD assigns the faculty member as per their qualification and expertise and the subject distribution is communicated to the faculty member well in advance for proper preparation. Timetable is prepared as per the availability of infrastructure and shift of faculty member which is approved by authorities. The approved Time table is displayed on notice boards and college website prior to commencement of new term.
3. **Preparation by each faculty member:** Once the subject is allotted to the faculty member, they prepare teaching plan and course file as per the departmental academic planner. Lab manuals are prepared for each subject by the respective subject in charge along with important oral questions.
4. **Academic Monitoring Committee:** A Guardian Faculty Member (GFM) is appointed for each class to monitor day to day conduction of time table and academic planner. Daily attendance is monitored by each faculty member and defaulter students with poor attendance are identified. Parents of such students are informed by telephone and SMS alerts, if required counselling is done by 3rd party and batch counsellors. HOD takes feedback of the faculty member twice in a semester from students and analysis is done by GFM. If feedback is poor, then corrective measures are advised by HOD and Principal. Faculty member meetings are held every week by the HOD to take academic review and suitable remedial measures are advised if necessary.
5. **Resource Planning:** Instruments which require repair or are obsolete are identified. Yearly budget is prepared based on consumables and equipment and planned lab wise and submitted to "Purchase Committee" to call for quotations. Comparative statements are prepared to release requisition for each item. After receipt of these, demonstration is arranged to check satisfactory operation and test report is prepared.
6. **Selection process of final year projects:** Project coordinator is assigned to final year students who assign project guides to these student groups as per area of specialisation of the faculty member. The students are encouraged to get company/college sponsored projects with innovative idea. Projects with market potential are considered and supported for development of new start-ups.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

#### Response:

#### 1.1.2 The Institute adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

AISSMS IOIT is affiliated to Savitribai Phule Pune University (SPPU) and thus follows the examination pattern of University. Institute first prepares annual academic planner before the commencement and then it is circulated to all departments. Department Coordinator of Academic Planner takes the responsibility to complete the department planner in association with all the staff members.

Apart from mandatory University examination many other Continuous Internal Evaluations had been followed. Evaluation is based on various activities organised such as training program, workshops, seminars, competitions, participation of students at various level etc. Internal Evaluation is carried out with respect to following points.

- Class test is arranged after the completion of every units. As there are 6 units, there are 6 class test. Test papers are evaluated by respective staff members and if the student scored below the threshold, students are asked to the task assigned by the teacher.
- On the similar ground, assignment is given after the completion of every unit. Staff does the evaluation based on timely submission and for the right answers.
- Mock orals are organised for subjects having practical or oral or term work as the head. Staff organise mock oral while checking the journal in order understand if the students knows the technical details.
- Mock practical examination is also organised after the completion of all practicals, in order to make students ready for practical examination.
- Mock project demo is organised two times in each semester for students at 3rd year and final year course. In 1st semester, 1st demo is based on literature survey and problem statement. 2nd demo is based on technical parameters of the project.
- In 2nd semester, 3rd and 4th demo is based on hardware and software requirement and successful implementation of project. External examiners are called during final demo to assess performance of the students.

Apart from technical internal examination, students are also assessed based on their performance in active participation in technical – non technical, cultural, sports etc. students shows their talent on various platform provided by college like ALACRITY, Department level students association, Inter collegiate level, state level, National level, International level.

Students are assessed on all possible platform and the internal marks are given as per their performance in internal test, assignments, mock oral, mock practical, mock demo of project and their participation and achievements in each event in order to ensure justice with all students.

This complete process of internal performance evaluation is used for faculties to identify slow and advanced learners in their respective subjects. Counselling is done for slow learners and they are encouraged to improve their further performance. Counselling sessions found to be very useful to overcome personal issues, academic and non-academic problems.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

**Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

**Response:** 100

**1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.**

**Response:** 8



File Description	Document
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

### 1.2.2 Number of Add on /Certificate programs offered during the last five years

**Response:** 404

#### 1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2019-20	2018-19	2017-18	2016-17	2015-16
193	144	57	8	2

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

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

**Response:** 81.49

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

2019-20	2018-19	2017-18	2016-17	2015-16
2279	2226	2228	2332	182

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

#### Response:

Institute has taken initiative to sensitize and inculcate values, rights, duties and responsibilities of citizens through activities mainly organized by National Service Scheme (NSS), Student Development/Welfare Organization (SDO/SWO), Internal Complaints Committee (ICC), Staff/Student Grievance committee, SC/ST/OBC Reservation Committee, Committee for students with disabilities, Anti-ragging committee, Discipline Committee and department.

Institute takes consistent effort to inculcate **values** among students. Institute always put best towards overall development of the students by organizing expert lecture on “Universal Human Values” in early days of their engineering education. Apart from technical subjects, students are asked to enroll for MOOCs courses which promote human values and ethics in them. Students are engaged in the course “Ethics in Engineering Practices” which helps in the holistic development of the students. Throughout the year, NSS ensures to conduct activities such as visits to historical places, tree plantation, pollution awareness camps etc. in order to preserve national, social, environmental and historical values.

Institute creates awareness about human **Rights** as per constitution obligation. The preamble of constitution obligation is displayed in college corridor. The Board of Students’ Development (BSD) looks after the protection of rights and supervises the Development activities of the students. Internal Complaints Committee (ICC) sensitizes about women rights and gender equity through various activities like “Abhivyakti”. NSS and SDO/SWO units take remarkable efforts to celebrate Constitutional day. Voting awareness program is conducted to make students aware about voting rights and also help them to enroll their names in the voters’ list.

Students and employees are sensitized about constitutional obligations related to **duties and responsibilities** through the activities like tree plantation, Swachh Bharat Abhiyan, computer literacy sessions, street plays on social issues, yoga and physical exercises, fort conservation, cloth donation, and volunteering during pilgrimage programs etc. NSS unit regularly organizes various activities and annual residential camp to sensitize students about social responsibility. It also extends support through Unnat Bharat Abhiyan in which students carry out the survey of socio economic problems of the rural areas. NSS and SDO/SWO units take remarkable efforts to celebrate Independence Day, Republic Day, Yoga day, Environment day, Teacher’s day, and birth anniversaries of great national heroes etc. to revive the national spirit, duties and rights defined by the constitution.

All the departments actively organize social and techno-social visits. The objectives behind such activities are to make students aware of responsibilities towards environment, persons with disability, senior citizens and poor students by organizing social visits to old age homes, schools for blind, orphanages, etc.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 9.02

#### 1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
40	37	33	31	35

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 72.49

#### 1.3.3.1 Number of students undertaking project work/field work / internships

Response: 1652

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni**

**Response:** A. All of the above

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

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

File Description	Document
Upload any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 84.03

##### 2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
488	497	493	473	469

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
576	576	576	576	576

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 100

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

2019-20	2018-19	2017-18	2016-17	2015-16
165	173	166	165	170

File Description	Document
Average percentage of seats filled against seats reserved	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

The students are monitored during their academic journey in the Institute and special efforts are taken to enhance the performance of slow learners. Students with good academics and skills are mentored to achieve higher goals. Students are continuously encouraged to attend challenging goals.

At the commencement of the first-year classes, Institute hosts Induction program for the students for fresher students with their parents. On behalf of the management Honourable Secretary/Joint Secretary and Principal of institute address the students and the parents, which covers the introduction of AISSM Society and introduction of teaching pedagogy followed in AISSMS IOIT. Principal also brief about teaching learning methodology followed by institute and also elaborate on facilities central/departmental library, computer centre, gymnasium, sports centre and cultural activities.

Head of First Year Engineering department/Engineering science department briefs about academic calendar, rules and regulations to be followed by students

Institute conduct Psychometric test of individual students which is a scientific assessment tool to analyse student's capabilities, aptitude, personality and interests. To identify the students as advanced learner or slow learner, entry level analysis of each student is done. 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.

Students are encouraged to summarize concept understood during their class as part of 50:10 teaching module, this activity enhances student's confidence, communication skill and provide teacher the indication of student's understanding and learning level.

Students are provided with various opportunities to showcase and upgrade their technical skills. Many workshops/expert sessions/seminar and competitions are organized at institute level to encourage students to demonstrate their learning capabilities. Special attention is provided to slow learners by conducting extra practical sessions, remedial classes, tutorials, tests, regular mentoring and mock examinations.

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

#### Activities for Advanced learners:

- Project Based Learning
- Patent Publishing
- Student Association activities
- Project competition like Smart India Hackathon/ University Research Project Competition-

Avishkar

- Industrial training/Internship
- Participation in Seminars/Conferences/IIT events/Tech Fest
- Encouragement to complete NPTEL Courses
- Application of research papers in projects and paper publication in National/international conference
- Training program on soft skills development, professional skill development and aptitude training
- Mini project/model making/building/poster presentations competitions
- Industry sponsored/research project
- Students are involved in the research projects awarded to the institute by various funding agencies like University/IE(I)/IEEE etc.
- Industrial Visit

#### Activities for Slow learners:

- Entry level Analysis
- Psychometric Test
- Make-up classes
- Remedial classes
- Mock practical sessions
- Mock online test
- Tutorial
- One to one Counselling
- Personal attention in teaching
- Counselling & Mentoring
- Assignments and solving University question papers
- Theory Question bank/Oral Question Bank

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

**Response:** 19:1

File Description	Document
Any additional information	<a href="#">View Document</a>

### 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:**

Institute is taking significant efforts to motivate students for the self learning and in enhancing their learning experience. Faculty members are shifting the focus to a student centric learning process, instead 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 members provide a platform to students to explore independently, learn through self study and from their peers, guide 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 students are directly involved in the learning process through activities like - brain storming, quiz, debate, group discussions, role play, games, model making, mini projects, presentations, essay, elocution, case studies and simulations on technical content, PPTs with animations for some topics.

**2) Collaborative Learning:** The group/team of students work jointly to provide solution for complicated problems, complete a task/project, participate in debates or design a product.

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

**4) Problem based Learning:** Various competitions are organized to engage the students in complex, challenging problems by assigning them different tasks, assignments or activities. Students work collaboratively to obtain the solutions by using inter-disciplinary knowledge e.g. design and implementation of Software/Apps, design and building robots etc.

**5) Peer Learning:** Students are engaged in intellectual discussions and work in team for solving difficult task and problems under the guidance of a peer leader to perform various activities.

**6) 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.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.**

**Response:**



The traditional chalk & talk method of teaching-learning is monotonous. Hence innovations should be included in teaching learning process to make it more attractive for students. Faculty members are realizing the need of various ICT tools and techniques in teaching-learning process to deliver the contents/knowledge. This will help the students to grasp the ideas quickly and increase their active participation in it. Faculty members are attending various Faculty development programs for domain knowledge and for new trends in education technology/pedagogy which make their teaching more innovative. Following are the various ICT tools and techniques used by faculty members and institute to make teaching more innovative:

- 1) ICT based teaching-learning (Moodle, etc.)
- 2) Digital social learning platforms (WhatsApp, blogs, etc.)
- 3) Microsoft Team for sharing subject notes
- 4) Open courseware (OCW) assignment
- 5) Microsoft Team for conduction of Test/MCQ tests.
- 6) Use of IITB Virtual lab for conduction of Practical.
- 7) Video Prepared by Faculty members.
- 8) Google classroom for sharing notes.
- 9) Google classroom for conduction of test/MCQs test.
- 10) Google classroom for sharing videos.
- 11) Google classroom for sharing question bank.
- 12) Presentation done by students under student's association chapter events

Use of ICT tools in teaching learning process help to improve academic performance of the students, their communication, technical and management skills and makes them industry ready. Use of social networks has provided the possibility of creating work groups where students expose or discuss different topics, publish content related to the subjects, etc. The use of ICT in the classroom increases the motivation of the students, showing more interest and becoming more involved in the areas they study. ICT enables the use of innovative educational resources and the renewal of learning methods, establishing a more active collaboration of students. Use of resources as videos, websites and graphics make traditional subjects more interesting. The use of ICT in the classroom promotes the student's active and participatory attitude. Collaboration between students is enhanced due to various digital tools. It is much easier for them to create team projects, cooperate and learn from each other.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 19:1

#### 2.3.3.1 Number of mentors

Response: 117

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

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

**Response:** 105.09

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

**Response:** 10.45

#### 2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
18	17	17	12	8

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

**Response:** 8.63

#### 2.4.3.1 Total experience of full-time teachers

Response: 1043.7

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

**Response:**

The institute follows all the evaluation reforms as prescribed by the University. In addition, the Institute has introduced measures on its own. Following are the major evaluation reforms introduced by the University:

College Examination Officer (CEO) - As per University directives, the Institute has appointed a senior and experienced faculty member as College Examination Officer (CEO). The Examination Committee is headed by Principal, assisted by CEO and senior faculty members from each department.

In semester Examination - University has introduced the model of in-semester examination for First year (FE), Third year (TE), Final Year (BE) and Master of Engineering (ME) courses.

Computerization - University has introduced online examination for evaluation of First and Second year

engineering courses. The Institute conducts online examinations of the University every semester.

Credit system - As per the University guidelines credit system has been introduced for the UG and PG Programs.

The reforms initiated by the Institute are as follows:

As a regular practice institute conducts unit test examination, mock practical/oral examinations, FE prelims, and conduction of mock online examinations. To support the above reforms, the institute appoints examiners for the conduction of various practice examinations.

The examination pattern, marking scheme and Term work assessment scheme are communicated to the students at the beginning of the semester.

The policy for internal assessment is as follows:

In the internal assessment, weightage is given to:

- The attendance in theory class and practical sessions
- Understanding by the student
- Presentation skills of the student
- Timely submissions of journal, write-ups and assignments.
- Performance in tests and tutorials.
- Independent learning through projects and presentations
- Communication skill and oral examinations.

The unit test answers and marking scheme is discussed by the faculty with the students.

Final year students are given self-evaluation sheets for their projects.

File Description	Document
Link for additional information	<a href="#">View Document</a>

**2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient**

**Response:**

The institute has adopted the following mechanisms for redressing the grievances of the students with reference to evaluation both at the college and University level

Institute level grievance Redressal:-

- 1.If any grievance is raised by a student, then it is reported to Head of the Department, and it will be solved amicably after discussion with concerned faculty.
- 2.The concerned faculty discusses the marking scheme and model answers with the students and helps them to solve their queries.
- 3.If grievance is not addressable at the department level then the matter is forwarded to the Principal for further action.

University level grievance Redressal:-

- 1.The institute's Chief examination officer (CEO) and examination section redresses University evaluation grievances.
- 2.They forward these grievances to the University for redressing them. Under the University evaluation redressal system students can apply for photocopy, verification and revaluation.
- 3.After revaluation at the University level, results are communicated to the Institute.
- 4.Institute communicates the same to the concerned students.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

**Response:**

Program Outcomes (POs) are based on the graduate attributes prescribed by National Board of Accreditation and they are uniform for all the programs. While the Program Specific Outcomes (PSOs) as defined by the Program and they are based on the branch or program specific skills.

The institute has clearly defined the course outcomes (COs) which are mapped to the POs and PSOs.

- 1.The vision and mission statements of the programs and institute are displayed on the institute

website and at various key positions in the institute building.

2. POs are printed in institute brochure and newsletter and published on the institute's website.
3. The vision, mission and POs are conveyed to the students during students orientation program conducted at the start of each year.
4. Vision, Mission and POs are discussed during parents meet organized by the department once per semester.
5. Every faculty member discusses vision, mission, POs, PSOs and COs at the start of course work in every semester.
6. Head of Department (HoD) discusses vision, mission, PEOs, POs and PSOs with the faculty members in departmental meeting.
7. Vision, mission, PEOs, POs and PSOs of the department are discussed when the alumni visit to institute and during alumni meet conducted once per year.
8. HoD and faculty members discuss vision, mission, PEOs, POs and PSOs with industry experts who visit to the department for conducting seminars, workshops, expert lectures etc.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View Document</a>
Past link for Additional information	<a href="#">View Document</a>

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

#### Attainment of course outcomes:

The calculations of CO attainment is done by using internal and external assessment tools.

#### The external tools:

The external tools the university examinations like theory, practical, oral and term work etc. The CO are assessed by the performance of students in these examinations.

#### The internal tools:

Assignments, unit tests, quiz, presentations etc. are considered as internal assessment tools.

#### Weightages of internal and external assessment tools:

Internal and external assessment tools are assigned weightages as 20% and 80% respectively.

#### Process:

1. Marks scored by the students in all the internal and external tools are entered in the database.

2. Average percentage marks of previous years' examinations is set as the target.
3. The attainment levels are set based on the results of previous examinations.
4. The number of students scoring marks more than set target are counted. The count is converted into percentage.
5. The percentage calculated in step 4 is compared with the range assigned to the three attainment levels in step 3 to find out the corresponding level.
6. Average of all the attainment levels by using internal tools is calculated.
7. Average of all the attainment levels by external tools is calculated.
8. 20% of the average attainment level by internal tools and 80% of the average attainment level by external tools are added to calculate the CO attainment.
9. Average of all CO attainments is calculated to determine the overall CO attainment of the course.

### ***Attainment of Program Outcomes and Program Specific Outcomes:***

The calculation of attainment of POs and PSOs is done by using direct and indirect assessment tools.

**The direct tool:** is the value of CO attainment calculated using marks scored by the students in internal and external examinations as stated above.

**The indirect tools:** include various feedbacks collected from the stakeholders such as students, alumni, employers etc.

Weightages are given to these feedbacks based on their relevance to PO/PSO.

### **Weightages of direct and indirect assessment tools:**

Direct and indirect assessment tools are assigned weightages as 80% and 20% respectively.

### ***Process:***

1. Attainment by direct tool
  1. Matrix of CO-PO-PSO and CO attainment values of all the courses from first year to final year are considered.
  2. Product of CO attainment value of a course with the corresponding level of mapping of the course with PO/PSO (to get the inference of the strength of mapping) is calculated.
  3. Summation of all the products is calculated (sum of products).
  4. Summation of all the levels of mappings of the course with a specific PO/PSO is calculated.
  5. Sum of products is divided by sum of all the levels of mappings to calculate the total attainment.
2. Attainment by indirect tools
  1. The feedback forms from various stakeholders are collected and analyzed to calculate percentage response.
  2. Total attainment by indirect tools is calculated by taking weighted sum of all the percentages.
3. 80% of the direct attainment level and 20% of indirect attainment level are added to calculate overall PO/PSO attainment.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students during last five years

**Response:** 99.72

#### 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
600	522	506	586	581

#### 2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
604	523	508	587	581

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for the annual report	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:** 3.36

File Description	Document
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>



## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 69.23

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
40	3.1	6.59	7.14	12.4

**File Description**

**Document**

List of endowments / projects with details of grants

[View Document](#)

e-copies of the grant award letters for sponsored research projects / endowments

[View Document](#)

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 20.66

**3.1.2.1 Number of teachers recognized as research guides**

**Response:** 25

**File Description**

**Document**

Institutional data in prescribed format

[View Document](#)

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 46.67

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
5	2	1	4	2

### 3.1.3.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
6	6	6	6	6

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Paste link to funding agency website	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

#### Response:

The institution has a well-established ecosystem for innovation, development and incubation activities. The institution has initiated separate research and development (R&D) cell, Incubation and Entrepreneurship Development (ED) cell to encourage students and faculty members to explore their creative ideas and promote innovation. The students are encouraged to undertake design, fabrication and development projects and prove their skills through various technical competitions. Creation and transfer of knowledge wealth are focused through activities like, publications of research papers, industrial project work, innovation, consultancy and development activities.

- The institution has Entrepreneurship Development (ED) cell which organizes entrepreneurship awareness camp, expert lectures for career opportunities, and technology trends in industrial environment, orientation program for new entrepreneurs etc. It nurtures entrepreneurial attitude and skills of the students.
- Students understand the problem of industry and provide the customized solution for it. The innovative ideas of students are implemented in incubation centre to develop products beneficial for the society and industry. The expert faculty members provide technical support to incubate and motivate them to become entrepreneurs. Innovative projects are being designed and implemented under this incubation centre.

- Various workshops and seminars are organized for research methodologies and IPR under R&D cell. Talks of eminent personalities/experts are organized to guide and motivate research ideas and publications among students and faculty members.

#### Activities under innovation and incubation cell:

- Guidance sessions for students to prepare them for participation in various technical competitions, exhibitions
- Awareness sessions for students to give guidelines about paper writing, presentation, technical poster presentations and publications in reputed journals.
- Organization of inter/intra college technical competitions.

#### Outcomes:

- Students won runner up position in IEEE YESIST12 Innovation challenge at Stamford University, Thailand
- Students won first prize in national level competition - Mindspark Makeathon for innovative design and development of Smart Helmet.
- Students won first prize in national level competition - Hackathon 2020 for Developing a Software Tool to aid Search and Rescue by Calculating and Plotting Search Area from the Last Known Position of a Missing Aircraft.
- Student won first prize in 6th National Level Technical Expo.
- Student won the best paper award at 2nd IEEE International Conference on Emerging Smart Computing & Informatics ESCI 2020.
- Students' participation in technical competitions like Hackathon, DST & Texas instruments India innovation challenge design contest powered by AICTE, AVISKAR by SPPU, start-ups etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

**Response:** 132

**3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
55	31	19	12	15

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.3 Research Publications and Awards****3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years**

Response: 0.56

**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years**

Response: 14

**3.3.1.2 Number of teachers recognized as guides during the last five years**

Response: 25

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL to the research page on HEI website	<a href="#">View Document</a>

**3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**

Response: 2.99

**3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
176	67	110	52	21

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 1.12

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

2019-20	2018-19	2017-18	2016-17	2015-16
71	39	22	15	13

File Description	Document
List books and chapters edited volumes/ books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

In line with its vision and mission, the institute is very insightful to the impact of various extension activities on its students, employees, as well as on the regional community and the environment. The institute believes in giving back to the neighborhood community.

Institute continuously organizes and participates in various extension activities with the objective to

- Sensitize students about various social issues

- Contribute to community and strengthen it

The institute considers the impact of all extension activities on the local community. The various social and technical activities, events and programs organized by the institute reflect our commitment to operate in a techno-social responsible manner.

The institute motivates the faculty members and students to participate in need-based, participatory initiatives with local communities, and that range from health, sanitation, education, women's empowerment etc. The participation of the students sensitizes them towards the social issues and challenges faced by the weaker section of the locality; enables them to develop an empathetic understanding of the same and facilitate their initiation in civic engagement. The institute also promotes regular engagement of faculty members, students and staff with neighborhood community for their holistic development and sustained community development through various activities.

Various awareness programs/workshops/rallies/road shows/ voluntary activities with themes like cleanliness, green environment & tree plantation, gender sensitization, traffic rule awareness, road safety awareness, voter awareness, save water, demonetization and digital payment, rural development, national swachh bhara abhiyan, blood donation camps, international yoga day and women empowerment etc. are organized under NSS unit of the institute.

Students and faculty members of all the departments visit schools/orphanages/old age homes in the neighborhood community to share technical knowledge, monetary donations, and distribution of essential things to people affected by natural disasters/epidemics.

#### **Impact & Sensitization:**

- Exposure to extension and outreach activities sensitize the students towards social issues and also to legal and social remedies for matters like domestic violence, dowry, child abuse, beggars, female feticides, victims of violence, etc. The activities conducted imbibe the values of social responsibility such as:
  - To help people in need and distress.
  - To understand and fulfill the need of under privileged children.
  - To promote cleanliness in all span of life and common places.
  - To acquire social values and a deep interest in environmental related issues.
  - To understand societal/rural problems and provide solutions through projects.
  - To develop lifelong skills such as communication, management, leadership, analytical and perceptual etc.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>

#### **3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**

**Response: 0**

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>

**3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years ( including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

**Response: 108**

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

2019-20	2018-19	2017-18	2016-17	2015-16
30	17	21	22	18

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years**

**Response: 63.35**

### 3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1795	1179	1743	1655	875

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.5 Collaboration

### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

**Response:** 8

#### 3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
6	2	0	0	0

File Description	Document
e-copies of related Document	<a href="#">View Document</a>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>

### 3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

**Response:** 0

#### 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**

2019-20	2018-19	2017-18	2016-17	2015-16
00	00	00	00	00

<b>File Description</b>	<b>Document</b>
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

The institute has obligatory infrastructure required for effective teaching-learning (T-L) process, co-curricular and extra-curricular activities to fulfill the norms laid by the AICTE, DTE, SPPU. The available facilities are enhanced by addressing the needs of students and faculty members to support T-L and Research and Development activities.

Physical infrastructure consists of 31(UG+ PG) classrooms, 07 tutorial rooms, 47(UG + PG) laboratories and 01 seminar hall. In addition, the institute has supporting academic and administrative rooms. Classrooms and seminar halls have adequate ventilation and illumination and are equipped with audio-video system and ICT tools like PA system, LCD projector, internet connectivity. Each department has well-equipped laboratories and a departmental library. The available physical infrastructure is optimally utilized beyond regular institute hours, to conduct certificate courses, co/extra-curricular activities, campus to corporate readiness program, training classes, campus recruitments, meetings, seminars, conferences etc. All the departments have well-furnished separate cabins for the faculty members with the atmosphere conducive for regular interaction with the students who come for counseling, guidance and discussions. Institute also have Medical room, Girls Common room, Boys Common room.

Laboratories are equipped with state-of-the-art machines/equipments like UV-VIS Spectrophotometer, ECG Machine, Programmable logic controller with control panel, Distributed control system, Universal Process Control Trainer, Spectrum Analyzer, Logic Analyzer, Power Quality Analyzer, open source and latest proprietary software such as MATLAB, AUTOCAD, ETAP, SCADA, LabView, Xilinx, Microwind, Multisim, Powersim etc. The charts and models are displayed in the laboratories for better understanding of theory and practical concepts. Laboratories are regularly maintained and updated. Equipment is calibrated on a regular basis.

A part of regular laboratories institute also has various centers of excellence viz. Texas Innovation Lab., IEEE Affordable Agriculture Lab., DCS Delta-V Lab.by Emerson, Flow Lab. byForbes Marshall,Teknocrats Academy of Automation and Control Technology(TAACT) Lab.,Oracle Academy Lab., Power Quality Cell, SignioGlobalTech Solutions Lab.

Institute has Incubation center– Research Innovations Sustainable Entrepreneurship (R.I.S.E.)for prototyping, production and marketing for innovative projects.

Workshop consists of different facilities for imparting practical skills in such as milling, fitting, carpentry, welding, drilling using CNC, VMC, Centre Lathe, BenchGrinder Machine, Turning Machine etc.

For Internet access and computing purpose, the institute has massive network of 763 Computers (of which 640 are dedicated for academics) with 100Mbps bandwidth.

Enterprise Resource Planning (ERP) is deployed for effective academic planning, execution, monitoring and analysis. ERP software is used for automation of academic and administrative processes used in the institute, to maintain and analyze the data related to various processes of institute. This cloud-based ERP software has 40+ modules and it facilitates computerized process for student admission, educational certificates generation, teachers-parents communication, examinations, leave management, attendance and academic monitoring, students' feedback etc.

Training and Placement (T & P) cell has adequate infrastructure for training and placement activities.

For the physically impaired (Divyangjan) students, the institute has ramp, elevator, wheel chair, and washroom with necessary facilities.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**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 endeavor, the institute has a well-established Gymkhana Department and Art circle for effective and better coordination of various sports and cultural activities which is headed by Physical Director, Cultural In-charge and supported by the students' sports and cultural committees respectively. The society and institute fully support and encourage various sports and cultural activities with the motto that every student should not only be academically fit but also physically fit to face the challenges of the life. Campus has a playground of 172160 sq. feet for sports facilities.

The Institute has following outdoor and indoor sports and cultural facilities.

- Playground and necessary equipment for outdoor games like Cricket, Football, Kho-Kho, Volleyball, Basketball, Athletics, Kabbadi and Hockey etc.
- Space and necessary equipment for indoor games like Table tennis, Chess, Carrom, Judo, Gym and Yoga.
- Open air theatre and cultural room with latest musical instruments and practice area for cultural activities.

Since the establishment of the Institute, the gymkhana has been playing vital role in the overall development of the students. As a result, our students have earned applauds in the various competitions at University, State and National level sports and cultural competitions. Prominent among them are- University Intercollegiate sports competition, Purushottam Karandak, Firodiya Karandak, Zest, MIT Summit, Kaware Trophy etc. Our students have also represented at Net ball competitions at University level.

The students who represent institute in various sports and cultural events are provided with necessary gears/material and paid TA/DA. The students' achievements are acknowledged by felicitating them at Society and Institute level functions.

Apart from participation at various sports and cultural events, the institute organizes following events every year:

- Annual Social gathering.
- National level inter –Collegiate Technical, Sports and Cultural Competition - ‘ALACRITY’.
- State level Inter-Collegiate T20 cricket tournament - “IOIT CRICKET LEAGUE”.
- Inter- department technical, sports and cultural competitions.

The students' sports and cultural committees are actively involved in organizing the above events. A separate budget is allocated by the institute for organization of various sports and cultural activities.

The Gymkhana office of institute organizes medical checkup for teachers and newly admitted students. Physician is also made available on request. Institute's ambulance/ vehicle is available for medical emergency.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

**Response:** 100

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

**Response:** 32

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 68.59

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
119.82	31.79	154.92	65.73	118.37

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 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 the library. Institute Central Library is using commercial software. Library is partially automated (yr of automation 2013) with System for Library Information Management (SLIM21) software having version 21. Library collection can be browsed / searched on Intranet using the SLIM21 OPAC module. SLIM21 helps for catalogue books, e-books, articles, reports, serials, publications that contain information so vital to the institute.**
- **SLIM21 cataloguing adheres to popular international standards. With SLIM21 retrieval of information is simple, fast and efficient. 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 summary, 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. The 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 the serial control module. SLIM21 software also provides statistical analysis required for Library Management systems such as weekly transitions, most issued items, less issued items, reference books, Books sent for binding.

- This software is purchased from Algorithms consultants Pune, they provide online and offline support for software problems, proper backup, and maintenance of software during the annual maintenance contract period.
- Library web OPAC homepage and link has been displayed in the library. Users can search the catalogue on their mobile phones also. Previous university question papers are available on the college website under facilities tab. Institute library is also using Dspace open source software for institutional repository where AISSMS BE project reports are made available.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

#### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

**4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)****Response:** 24.6**4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
16.77	17.21	26.47	33.33	29.23

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e-journals during the last five years (Data Template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the last completed academic year****Response:** 2.67**4.2.4.1 Number of teachers and students using library per day over last one year**

Response: 64

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

**In this electronic communication era, internet communication is very important in the teaching learning process. To fulfill the norms of AICTE and University, the institute has very strong IT infrastructure. Institute aims at providing futuristic facilities to its students so that they can utilize these resources to reach greater heights. To enable this, the institution frequently updates its IT**

facilities to provide the best facilities. Our classrooms are equipped with LCD projectors and supported by audio visual systems. The entire campus is monitored by CCTV cameras installed at strategic places.

The institute has massive network of 763 computers with 100 Mbps fiber optic internet connectivity along with standby 10 Mbps backup link and Wi-Fi facility with public and private connectivity. Centralized firewall “Cyber-roam” is used for network monitoring, management and internet security. Three layer switching LAN is available for the entire campus. L3 Cisco (GIGABIT Switch) 48-port switch is present on each floor of the institute which are connected to the Main L3 Cisco 48-port switch. All the laboratories on each floor contains 24 port 10/100 L2 switch. All floors and computer laboratories are connected in Star topology and 100 Mbps bandwidth is shared in LAN. Uninterrupted power supply (UPS) is available in all computer laboratories.

Open source and latest proprietary software such as ETAP, LabView Elvis, MatLab etc. are available in laboratories. Institute has a well established language lab to enhance communication skills of students. Language lab software consisted of the Interactive Instructor and student module, Audio and video recorder, lesson composer and integrated study material. Institute has licensed MS teams software for conduction of online classes and meetings.

Four servers are available for smooth conduction of various activities such as online examinations, webinars, online workshops, virtual lab, hosting proprietary software etc.

Enterprise Resource Planning (ERP) is deployed for effective academic planning, execution, monitoring and analysis. ERP software is used for automation of academic and administrative processes used in the institute, to maintain and analyze the data related to various processes of the institute. This cloud based ERP software has 40+ modules and it facilitates computerized processes for student admission, educational certificates generation, teachers-parents communication, examinations, leave management, attendance and academic monitoring, students’ feedback, learning management system (LMS) etc.

Computers with internet connection are made available to all the faculty members at their respective locations.

All the HoDs and IQAC coordinator are provided with laptops for administrative work.

The institute has a separate centralized maintenance system in order to support the IT infrastructure, campus facilities and equipment. All the IT facilities are periodically updated. Details of the same are given in the document of additional information.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 3:1



File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### 4.3.3 Bandwidth of internet connection in the Institution

**Response:** A. 750 MBPS

File Description	Document
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

### 4.4 Maintenance of Campus Infrastructure

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

**Response:** 28.45

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

2019-20	2018-19	2017-18	2016-17	2015-16
56.08	58.99	48.31	23.82	25.44

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

**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 has established standard systems and procedures for utilizing and maintaining the physical,

academic and support facilities as explained below:

There are college level committees that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities.

### **Maintenance and utilization of facilities (laboratory, computers, classrooms etc.)**

#### **Laboratory:**

The institute regularly maintains the laboratory equipment there by checking the working status of instruments. The laboratories are maintained by means of annual maintenance contract for computers, peripherals, networking, UPS etc. A history card is maintained for all the equipment. The minor maintenance is carried out by the laboratory assistants/technicians/workshop staff. In case of major maintenance of equipment, the concerned laboratory in-charge submits a maintenance request to the "Purchase Committee" through the HoD. Based on the request, the equipment maintenance work is assigned to an external agency through work order. All such records are maintained in the history card of the equipment.

Laboratory assistants are maintaining dead stock register and register for consumable material and undertake physical deadstock verification of laboratory material. Laboratory assistants are maintaining log book in the laboratory, updating laboratory boards periodically, and maintaining equipment, kits, wires, probes etc. Laboratory assistants are issuing equipment, components and manuals to the students, other laboratories and departments by making entry in the issue book. They are updating the display of laboratory with respect to laboratory time-table, list of experiments, list of major equipment along with cost, lab area, and charts as well as keeping record of consumables required for the laboratory.

#### **Library:**

Central Library Committee looks after all the updation of library resources like call and verification of books and journals requirement, prepare library budget, update and maintain the digital library setup, regularly update the text, reference books, journals, and perform dead stock checking. Irreparably damaged books are weeded out once in 3 years. SLIM 21 software is used for in house processes of the library. Books are arranged department wise and Dewey Decimal Classification (DDC) tool is used for classification of books. Barcode system is used for maintaining the records of the daily transactions. Web OPAC (Open Public Access Catalogue) link has been provided for searching books and other resources available in the library. Central library also maintains Institution Repository by using Dspace software. Previous university question papers are maintained department wise by the central library for students' reference. Printing and photocopying facility is available in the library.

The institute's librarian and department library coordinators are regularly reviewing and evaluating resource materials, such as book reviews and catalogs, in order to select and order print, audiovisual, and electronic resources. Departmental library in-charge prepares a list of books and displays the updated list semester wise as well as make a new entry of books in the department library records. Arrange the books or copies of books subject wise in the book shelf and make the entry accordingly. At the end of the semester they prepare a report about how many books were issued, returned or misplaced. Prepare requirements of new books and journals that are required according to the new syllabus and submit the

proposal to the central library through HoD. Departmental project and seminar coordinators submit all the project and seminar reports of students to the departmental library.

### Computers:

The maintenance of computer hardware and software of the institute is carried out by external agency through annual maintenance contracts (AMCs). The minor maintenance is carried out by the laboratory assistants. In case of major maintenance of computer hardware and software, the concerned laboratory in-charge submits a maintenance request to the "Purchase Committee" through the HoD. Based on the request, the maintenance work is assigned to an external agency through AMC. All such records are maintained in the history card of the laboratory.

### Sports Facilities:

Physical director of the institute ensures the utilization and maintenance of the institute's sports facilities. Physical Director gives requisition to the purchase committee for purchase of new sports equipment and maintenance of sport facilities. Physical director also plans and manages resources, budget and identifies potential opportunities for external funding. The sports section facilitates teachers and students with sports, recreation, and health checkups etc.

### Canteen:

The central canteen committee looks after the cleanliness, hygiene of the canteen. The committee also ensures that the quality of water and food is maintained.

### Institute Infrastructure:

The central "Civil, Electrical Repair and Maintenance" committee looks after the maintenance of the institute's infrastructure including the class-rooms, laboratories, building etc. The Housekeeping Cell looks after the cleanliness of premises and monitors the work done by peons and sweepers, ensures proper upkeepment of institute campus including all common facilities. Daily cleaning of common areas and washrooms is done by an external agency. Pest control and sanitization of the entire building is done regularly by external agency. Maintenance of elevators, fire fighting system, EPABX, CCTV, Air conditioners, water tanks, water coolers, RO plant, DG set, garden etc. is done through AMC. External agency take care of campus security.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 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 last five years

**Response:** 59.69

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

2019-20	2018-19	2017-18	2016-17	2015-16
1469	1391	1303	1354	1341

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	<a href="#">View Document</a>
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

**Response:** 0

##### 5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View Document</a>

#### 5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the

following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

**Response:** A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

**Response:** 10.82

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

2019-20	2018-19	2017-18	2016-17	2015-16
353	275	231	233	144

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

**Response:** A. All of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 43.9

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
353	275	231	233	144

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

### 5.2.2 Average percentage of students progressing to higher education during the last five years

**Response:** 20.74

#### 5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 124

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 0

**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>

## 5.3 Student Participation and Activities

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

**Response:** 26

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

2019-20	2018-19	2017-18	2016-17	2015-16
4	5	10	1	6

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

### **5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

#### **Response:**

At the beginning of every academic year, the institute constitutes the Student Council by following the norms laid down by the University. A class representative from each class will be nominated as a member of the Student Council. The student members elect a University representative, General Secretary, Technical, Cultural, Sports Secretary, and Girls representative for a term of one year. It aims at the all-round development of students and organizes several academic, co-curricular, and extracurricular events throughout the year in association with the University and other organizations. Meetings of the Student Council are conducted at least once in each term.

The functions and events conducted by various committees under the Student Council are as follows:

1. Students' Council: Under section 40 (3) of the Maharashtra Universities act, 1994, this council is established every year for performing prescribed duties.
2. Internal Quality Assurance Cell's (IQAC): Responsibility is planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the institute. It continuously strives to maintain quality in all domains.
3. Internal Complaints Committee (ICC):: This committee addresses complaints lodged by any student and effectively resolves the grievances of students. It maintains discipline among the students and empowers them to look into matters of harassment.
4. College Development Committee (CDC): The representatives & governing body of the Institute who play a significant role in designing, implementing and planning its quality policy. The management also ensures that the opinions and suggestions made by staff members are included in decisions implemented for college development.
5. Anti-Ragging: This committee ensures zero ragging incidents in the institute and also spreads awareness among students against any type of ragging activities.
6. Cultural: "Alacrity" is a national level fest and an annual social gathering which showcases the cultural talent of students. Our students participate in prestigious intercollegiate competitions such as Firodiya



Karandak and Purushottam Karandak every year and bag prizes.

7. Sports: This committee organizes various sports events at the local, state, national levels. It also organizes the interdepartmental sports events

8. Magazine: 'AAYAM' is our annual magazine. Committee. Students express their talent in the form of articles, poetry, interviews of eminent personalities, etc.

9. Technical Activities: Every department is having an active Student Chapter associated with the Institution of Engineers, India (IEI), Computer Society India (CSI), Indian Society of Technical Education (ISTE), Instrumentation Society of Automation (ISA), Association for Computing Machinery (ACM), Institution of Electronics & Telecommunication Engineers (IETE), Institute of Electrical and Electronics Engineer (IEEE) and Fire & Security Association of India (FSAI). These chapters conduct various programs viz expert lectures, industrial visits etc. Institute also organizes national/international conferences every year.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 24

#### 5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
16	15	29	33	27

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 There is a registered Alumni Association that contributes significantly to the development of

**the institution through financial and/or other support services**

**Response:**

The alumni association of the institute was established in the academic year 2014-15, Reg. No. Mah 301/2015/Pune.

**Objectives:**

To encourage and nurture the interaction between Alumni and institute benefited mutually to both.

To guide the students of the Institute for professional development, higher education, and being good citizens.

To promote the formation of regional chapters to increase participation of Alumni

To organize and support recruitment activities for the students of the institute.

To boost the students of the Institute and Alumni members of the Association for research development work in various fields of Engineering.

To mentor students of the Institute on various professional careers available and support them through various activities such as workshops, expert advice, seminars, industrial visits, etc.

To provide financial support in terms of scholarships to students and Alumni of the Institute for the purpose of education and career.

To support and assist other regional bodies for training programs in entrepreneurship development, with resources available with the association.

To foster the industry institute interaction to bridge the gap between industry and education offered by the institute and enhance students' employability.

To encourage and support students of the Institute in sports, cultural and extra-curricular activities.

To promote computer awareness and internet literacy among the backward class of society.

To publish a newsletter, books, journals for the public interest.

To provide medical support to existing and retired teaching and non-teaching staff.

Sighting the above objectives, the Alumni Association contributes in many ways for the development and betterment of our Institute. Students and institutes are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. We conduct alumni meets every year for the engagement of alumni. It is our aim to develop everlasting relations with our alumni which in turn will give rise to mutual benefits.

Following activities/events were conducted in 2019-20:

Expert lecture on “An orientation on final year projects for BE Students” by Alumni Rajeshwari Paddle on 11/06/2019.

Expert lecture on “Conducted interview for final year students from Technic company” by Alumni Monika Rode on 25/07/2019.

Expert lecture on “Getting a dream job” by Alumni Omkar Rajmane on 01/08/2019.

Expert lecture on “How to pursue higher studies” for SE and TE students by Alumni Snehal Bopardikar on 03/09/2019.

Seminar on “MS programs in Germany and job opportunities available abroad” for SE and BE students by alumni Shripad Kenekar on 18/09/2019.

Alumni meeting conducted with alumni members on 27/12/2019.

Expert lecture on “Scope of Biomedical Instrumentation” by Alumni Ms. Gauravi Sahthye, CODEX Solution Pvt. Ltd Pune on 06/01/2020.

Expert lecture on “How to proceed for higher study and Scope of Instrumentation in Industry” for BE students by Alumni Mr. Laukik Sanghavi, Founder, Parishram Enterprises on 13/01/2020.

Annual Alumni Meet on date 07/03/2020.

Alumni committee meeting conducted with alumni members on 07/03/2020.

Webinar on “Coffee and Conversation” with Alumni Mr. Anuj More on 22/05/2020.

Webinar on “Automation in IT Industry” by Alumni Mr. Omkar Vichare, Robotics Automation Developer, Accenture, Pune on 25/05/2020.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**Response:** A. ? 5 Lakhs

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

NAAC

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

The Vision and Mission statement of the Institute are as follows:

##### VISION

“To uplift the common masses by rendering value added education”

##### MISSION

“Empowering Society through dynamic education.”

AISSMS IOIT has distinctive characteristics which are satisfied through its mission in the sense that the Institute empowers its students to become technocrats, researchers, scientists, administrators and entrepreneurs by inculcating professional ethics, leadership qualities, being good team players, social awareness and responsibility. The institute believes in holistic development of students by including value added courses and making the education process dynamic in nature.

The governance within Institute consists of Governing body (GB), Local Management Committee (LMC) now termed as College Development Committee (CDC), and Internal Quality Assurance Cell (IQAC). The Management, IQAC, Principal and Central Committee co-coordinators are the four important leader who frame and Implement the policies which are in tune with Vision and Mission of the institute which in the governance of the Institute as a whole. The Principal holds meetings with Heads of the departments as the Faculty representatives, every week, during the weekly meetings with the Heads of the departments; the Principal reviews the processes and plans of each department. All the decisions, policies and planning to improve the quality are reviewed and discussed in these meetings before their implementation. . The Head of departments conduct weekly meetings with the staff to review the activities of the previous week and plan for the next week. These decisions, policies and planning are further reviewed by the College Development Committee (CDC) and the Governing Body. The CDC and Governing body are the statutory bodies formed as per the provision of Statutory Regulating Authorities (SRA's). The CDC and Governing body conduct meeting twice and thrice in a year in order to have effective implementation of the of the policies to monitor the value addition in the academic possesses.

The Management and Principal ensure that the Institute moves ahead with all the planning, to become one of the renowned Institutes. The policy statements and action plans are formulated, after careful consideration of all the stakeholders.

Every department prepares a well-planned academic calendar before the commencement of each semester. This calendar lists down all the curricular, co-curricular and extra-curricular activities which are in line with Vision and Mission of the Institute. The Institute maintains effective co-ordination and monitoring mechanism with departments and committees formed for these activities, IQAC monitors the functioning

of all the committees relevant to teaching –learning, student’s enrichment and overall development of the institute to identify areas of improvement and suggest the necessary action plan. These policies result in overall development of the student imparting dynamic education. There are various central committees in the institute, the coordinator of the committees plan development activities and ensure their timely execution, this reflects effective governance which are in tune with Vision and Mission of the Institute.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

#### Response:

The institute has inculcated the practice of decentralized and participative Management with will established mutual relationships among all the stakeholders. Effective leadership is visible through designing, planning, implementing and executing quality policy of the Institute to achieve its Vision and Mission.

The Principal conducts weekly meeting with the Heads, in order to delegate different responsibilities and roles to be performed by the faculty members in line with the quality policy. All the decisions, policies and planning to improve the quality are reviewed and discussed in these meeting before execution. At the end of every semester the meetings of prominent bodies like CDC and GB are scheduled to check the success rate of the decisions taken and to review the efficacy of the policy.

The representatives of the management are the members of the CDC and GB of the Institute who play a significant role in designing, implementing and planning its quality policy. The management also ensures that the opinions and suggestions made by faculty members and staff members are included in decisions implemented for college development which is reflection of participative Management in the Institute.

The institute welcomes the innovative ideas, concepts and thoughts from the employees and involves them in decision making process. The participative management is observed at levels right from class IV to the top management. Even the students are promoted to organize events in their own with limited involvement of faculty members.

The action plans for operations are prepared under the supervision and guidance of the Principal and Senior faculty members. The Institute has in total 42 Central committees. The committees are formulated such that the committee has a coordinator with expertise in the domain along with the members from each department. These committees meet to define, monitor and evaluate the policies for implementation and improvement, if any, from time to time.

In order to illustrate that the Institute practices decentralization and participative Management, a case study of participative management is the Research and Development committee (R&D) of the Institute. The

intention of the committee is to promote industrial collaboration, extend consultancy services and development services as per industry needs. To inculcate research culture among the faculty members and students of Institute, R&D committee promotes participations in quality events so that the participants get an opportunity to interact with renowned personalities in their domain. As a result of this, the Institute has received grants from various government and autonomous agencies from time to time. Even the Institute could host and organize the International conferences so far. The outcome of the decentralized and participative Management is generation of 28 patents, 6 copyrights, 18 of our teams qualified for Inter University Technical competitions and Hackathon, there are a total of 35 industry sponsored projects and a total of 426 publications in reputed research journals.

The committee has been instrumental in policy decisions such as distributing remuneration to staff members undertaking testing and consultancy projects, research funding or financial rewards to faculty members and students for quality publications etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

The perspective/strategic plan of the institution since the 1st cycle of NAAC includes:

- Permanent affiliation and accreditation of all branches
- PG courses and research centers of all branches
- More foreign collaborations
- **Establishing center of excellence**
- Autonomy of the Institute

We would like to highlight the “**Establishment of centre of excellence** “ as the successfully implemented activity based on the Perspective/Strategic Plan.

#### Power Quality and Energy Conservation Cell:-

The Department of Electrical Engineering established Power Quality and Energy Conservation Cell in the year 2017-18. Recently, Power Quality has gained a lot of importance in the industries due to increasing use of sophisticated equipment in business, to increase efficiency, productivity etc. and industry needs expertise/consultancy to measure, understand and analyze Power Quality issues.

The important objectives of the PQ cell are

1. To impart PQ training to students as well industry,
2. To conduct Power Quality audits for industries,
3. To recommend techno economical solutions to solve the PQ related problems,
4. To develop energy/PQ monitoring systems,
5. To help industries to reduce their electricity bill.

PQ Cell has state of the art instruments to conduct the audits. Students as well as faculties are involved in all the activities. The major benefit to students is to get hands-on experience in the industries and increase the employability.

#### Outcomes:-

1. Total Consultancy amount earned 2017-18 to 2020-21 (till Oct 2020) : Rs. 9,31,890/-.
2. Received Gridvis Software from Janitza GMBH Germany worth Rs. 4,00,000/- (5000 Euro)
3. Received UMG 512 Class A PQ Analyser from Janitza GMBH Germany worth Rs. 2,00,000/- (2400 Euro)
4. Total trainings to industries 14+.
5. In-house projects - 03
6. Products developed - 02

We have two more centre of excellence

- **IEEE HAC Affordable Agriculture Laboratory**
- **Texas Instruments Inovation Lab**

File Description	Document
Upload any additional information	<a href="#">View Document</a>
strategic Plan and deployment documents on the website	<a href="#">View Document</a>

#### **6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.**

##### **Response:**

The Institute has well defined organizational structure for effective functioning. The organizational structure is represented in organizational chart consists of Governing body (GB), Academic and Administrative set up and various bodies. The GB is the uppermost decision making body consisting of



members of management, member secretary, distinguished members from the field of education and nominated faculty members. College Development Committee (CDC) includes members of management, member secretary, elected teaching staff, IQAC coordinator, elected non-teaching staff, alumni and student representatives. CDC provides inputs to the Chairman for all-round institutional development. All the stake holders of the organization are involved in the decision making and policy framing process.

The representatives of the management are the members of the CDC and Governing Body of the Institute who play the most significant role in designing, implementing and planning of its policies. The Management and the Principal ensure that the institution moves ahead with all the planning, to become one of the renowned institutions. The Leadership strives to empower society by providing dynamic education.

***Some of the major policy decisions which reflect the effective and efficient functioning of the institutional bodies are as follows:***

1. Permanent affiliation for all branches.
2. Accreditation of all branches.
3. Establishing centre of excellence.
4. Autonomy for the Institute.
5. PG course and research centre for all branches.
6. Foreign collaborations.
7. Research motivation scheme
8. Promotion of testing and consultancy activities
9. Cash awards for best teaching and non-teaching staff
10. Higher education promotion

These decisions, policies and planning are reviewed by CDC and GB. The CDC and GB are the statutory bodies formed as per provisions of Statutory Regulatory Authorities (SRA). CDC and GB conduct regular meetings in order to have effective implementation of policies and to monitor the value addition in the Academic processes.

Action plans for implementation are prepared under the guidance of Principal and the Heads of the Department. These policies result in overall development of students. There are various Central committees in the Institute, the leaders of these committees plan development activities and ensure their timely execution. IQAC monitors the functioning of all the committees relevant to Teaching-Learning, student enrichment and overall development of the Institute to identify areas of improvement and suggest necessary actions.

***Appointment and service rules, procedures also reflect the effective and efficient functioning as stated below:***

The institute follows the recruitment procedure prescribed by the affiliating university which is as given below:

1. Approval of roster for recruitment from the affiliating university.
2. Publishing advertisement in leading newspapers and Institute's Web site.
3. Conduction of interviews through the panel constituted by the affiliating university.
4. Issuing appointment orders and joining of the newly recruited teachers.

The institute follows similar procedure of recruitment mentioned above through a committee constituted by Management if the procedure of recruitment through University selection committee is likely to cause delays in appointment of teaching faculty, or to fill up the vacancies created on account of resignations tendered by existing staff, termination, or death of staff.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

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

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

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

**Response:**

**Response:**

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

1. **EPF:** The Employee Provident Fund (EPF) is a scheme that helps people saves up a sufficient corpus for retirement. Institute contributes 12% of basic salary of all employees as contribution towards EPF.
2. **Gratuity:** Gratuity is given by the Institute to all employees for the services rendered by him/her during the period of employment. It is usually paid at the time of retirement but can be paid earlier, provided certain conditions are met.

As per the Gratuity Act, 1972, the formula for calculation of gratuity for employers covered under the law goes as follows –15 days of last drawn salary by an employee for each completed year of service rendered by him/her or partly completed with more than 6 months of service. It is further divided by 26.

**3. Co-operative Credit Society:** Started by the AISSM society for the welfare of all employees. 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.

**1. 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.

**2. 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.

**4. Group Insurance:** The master group insurance policy was taken for all employees. Premium amount is deducted from the salaries of all employees. 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/-

#### **5. Uniform for class IV staff:**

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

#### **6. Maternity Leave:**

Months maternity leaves are provided to women employee after completing probation of 2 years.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>

#### **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:** 10.76**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**

2019-20	2018-19	2017-18	2016-17	2015-16
20	25	16	10	01

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

**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:** 8.8**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
15	14	09	03	03

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	<a href="#">View Document</a>
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation /**

**Induction Programmes, Refresher Course, Short Term Course ).****Response:** 178.7**6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
870	97	84	34	32

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

**6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff****Response:****Response:**

**The Institute has well defined Performance Based Appraisal System (PBA) for Teaching Staff and Evaluation system for non teaching staff.**

**1) Performance Based Appraisal System for Teaching Staff:**

The Institute strictly follows all the essential recruitment and promotional policies as stipulated by Savitribai Phule Pune University, All India Council for Technical Education (AICTE) and Government of Maharashtra. Each and every faculty member completes the self-appraisal procedure every semester in the format prescribed by Savitribai Phule Pune University / AICTE.

Self-appraisal is done on the basis of the following points:

**1. Teaching, Learning and Evaluation Related Activities:-**

- Lectures, seminars, tutorials, and Practical Conducted
- Project guided
- Additional knowledge and resources provided
- Examination related work
- Academic Progress Record

- Students feedback
  - Result analysis
2. Co-curricular, Extension and professional development related activities:-
- Co-curricular Extension
  - Professional development related activities
  - Contribution to Corporate Life and Management of the Institution
3. Research, Publications and academic contributions
- Publications–Papers in conference proceedings / workshops/ seminars / symposium, etc. and papers in journals, books, articles / chapters published in books.
  - Research guidance
  - Faculty development Programs attended / organized
  - Research Projects and Consultancies: ongoing projects/consultancies and completed projects/ consultancies.
4. Official conduct
5. Other relevant information

The HOD and the Principal reviews the performance appraisal of all the staff. It is obligatory for all the staff to qualify in the appraisal. This is used in deciding the regular increments, promotions and for regularizing the staff after probation period. The award for Best Teacher is also based on this score. Since last two years institute gives cash award to first three PBA toppers worth Rs. 50000/- and 25000/- and 15000/- respectively.

The performance based appraisal score of all the teaching and non teaching staff members are put up in the CDC and GB meeting for discussing the rewards and punitive actions. The staff members who do not qualify minimum criteria are communicated by their respective HODs and a list of such staff members is sent to the management. The management then interacts one to one with these staff members and tries to figure out their problems, difficulties for improving their performance.

## 2) Evaluation System for Non-Teaching Staff:

Evaluation System for non teaching staff is monitored on the parameters like – work assigned and completed by staff, performance, length of the service etc. The Head of Department assesses the performance and the Principal reviews the remarks. The system is transparent. After the evaluation, concerned staff is directed for further improvements if required. Based on the reviews, the report is submitted to the management for further necessary action. Best performing staff members are given cash awards worth Rs 35000/- and 15000/- and 10000/-

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

**Response:**

**Response:**

The Institute has a well-defined procedure to monitor effective and efficient utilization of available financial resources for infrastructure development and academic processes. Institute budget is prepared every year after compiling requirement regarding recurring and non-recurring expenditures.

All the major financial transactions are monitored by the by the college development committee (CDC) and Governing body (GB) which comprises of the Institute authorities and the Members of the Society. The budget is discussed in the CDC and GB of the Institute. The resolutions of the CDC and GB regarding approval for budget is forwarded to the Managing Committee and Governing Council of the society for Final Approval of the budget to be spent during the academic year under various heads.

The society has constituted a separate purchase committee comprising of management members. The purchase procedure such as calling quotations, technical bid, preparing comparative statement, negotiation meetings are followed for effective and efficient use of available financial resources.

In addition to this, the account of each financial year of the Institute is audited by internal and external auditors. Thus the utilization of financial resources is monitored at two tier level.

Internal and external auditors are appointed by the AISSM Society. The internal and external audits are carried out in each half of the financial year.

The internal and 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. This 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.

The objection raised in the Internal and External audit reports are reviewed by the Management, Principal and Accountant, and the necessary compliances are carried out toward the fulfillment of the objections raised.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

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

**Response:** 6.96

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

2019-20	2018-19	2017-18	2016-17	2015-16
4.05	0.2	1.25	0.3	1.16

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>

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

##### Response:

##### Response:

The Institute has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purpose. This ultimately helps in realizing the Institute's Vision and Mission.

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

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 and consumables required for next academic session. Principal put up the budget in College Development Committee (CDC) and Governing Body (GB) meeting and after discussion and necessary corrections/modifications; College Development Committee and 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 College Development Committee and 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 and extra-curricular activities like technical events, sponsoring of faculty and staff for various FDPs, 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



level events.

All the major financial transactions are monitored by the College Development Committee (CDC) and Governing body (GB) The budget is discussed in the meetings of CDC and GB of the Institute.

The resolutions of the CDC and GB regarding approval for budget are forwarded to the society for final approval of the budget.

The Society has constituted a separate purchase Committee comprising of Management representative, Principal and 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.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## 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:

Internal quality assurance cell (IQAC) of the institute has 42 committees under its ambit to mainly focus on

- Teaching – Learning(T-L)
- Research and Development
- Industry interaction
- Training and placement

#### Teaching - Learning

IQAC takes efforts to guide the teachers to focus on outcome based education(OBE) by conducting session on

- Course Outcome(CO) formation, assessment and CO, PO attainment
- Quality of internal semester question papers, assignments and evaluation
- Examination reform
- Product development
- Introduction and hands on training of LMS

The teachers discuss COs with students at the commencement of the course. Teachers identify the gaps between CO and PO to plan the activities to bridge them. IQAC has prepared and circulated standard formats for maintaining the relevant documentation.

Academic monitoring committee looks after the attendance and conducts regular review meetings of guardian faculty members. Students with poor attendance are counselled to improve the attendance.

Teachers upgrade themselves through NPTEL course certifications. To motivate teachers for certifications, half amount of registration fees is reimbursed to those whose consolidated score is greater than 60%. Compensatory off is granted for preparation of the examination.

### **Research and Development (R&D)**

R&D committee motivates teachers and students to participate in conferences, seminars, and technical competitions etc. Promotional policies such as marks in PBA for applying for research grants, relaxation in teaching load for research work, financial support to attend FDP/conferences and presenting proposals to funding agencies, financial rewards for quality publications etc. have been approved by CDC. To promote testing and consultancy, revenue distribution policy has been approved by CDC.

### **Industry interaction**

IQAC has initiated iConnect (Industry Institute Individual Connect) program for strengthening interaction between institute and industry which involves contribution by every individual teacher. Every faculty member connects with at least one industry to organize visit/hands on training/expert lecture/internships/sponsored project/placements. It is made mandatory for third year students to undergo internship after the end sem. examination.

### **Training and placement (T&P)**

Various value addition programs according to the need of the industry are organized regularly. IQAC initiated "Campus to Corporate Readiness Program" for employability skill development of the students to enhance the placement rate.

### **Internal Academic Audit**

IQAC conducts internal academic audit at the end of each semester to ensure all the academic processes are carried out regularly and documentation is maintained.

### **Reward system**

In order to motivate and appreciate the work done by the teachers, non-teaching staff and students, IQAC organizes award function on the occasion of Teachers' Day every year. Cash awards of 50000/-, 25000/- and 15000/- are given to the winners. IQAC verifies the applications to analyze scores and announce the winners.

### **Induction program for newly appointed teachers**

Every year IQAC organizes induction program for newly appointed teachers to

- Make them aware about their roles, responsibilities and rules/regulations
- Familiarize them with the infrastructure, resources/common facilities
- Make them aware about concept of OBE.

- Explain and make them able to define course objectives, COs and calculate CO attainment.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**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 and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

**Response:**

IQAC conducts **Internal Academic Audit(IAA)** at the end of each semester. All the teachers calculate the CO attainment of their respective course(s) and it is submitted to the departmental coordinator for calculation of PO attainment. The members of assessment committee check the CO and PO attainment calculations during the IAA. If the attainment values of CO and PO are less than the set target then necessary actions are planned.

The **assignment questions are set based on the learning levels of Bloom's Taxonomy**. Bloom's Taxonomy helps teachers to define measurable course outcomes and students to better understand the questions and hence write the satisfactory answers. Different weightages are assigned to learning levels from first year to final year courses. More weightage is given to the lower learning levels for first year courses, while weightages for higher levels go on increasing from second year onwards. This helps students to develop critical thinking which in turn makes them able to design solutions for complex engineering problems.

**The institution has initiated separate Incubation and Entrepreneurship Development (ED) cell to encourage students and faculty members to explore their creative ideas and promote innovation. The students are encouraged to undertake design, fabrication and development projects and convert them into products. Total 39 alumni have become entrepreneurs in last five years.**

Students are asked to watch video lectures available on **open course ware modules** and write brief description of it in the prescribed format as an **assignment**. This improves the listening and writing skills of the students as well as inculcates habit of self-study which further increases their confidence.

IQAC has initiated **iConnect (Industry Institute Individual Connect)** program for strengthening interaction between institute and industry which involves contribution by every individual teacher. Every teacher connects with at least one industry to organize visit/hands on training/expert lecture/internships/sponsored project/placements. It is made mandatory for third year students to undergo internship after the end sem. examination.

To promote **testing and consultancy**, revenue distribution policy has been approved by CDC.

To inculcate employability skills in the students, institute has started **Campus to Corporate Readiness Program**. It has 4 levels starting from first year to final year. It covers all the required skills such as aptitude, communication skills, personality development, resume writing, group discussion etc. This has resulted into increased placement statistics.

Outcomes:

- Runner up position in IEEE YESIST12 Innovation challenge at Stamford University, Thailand
- First prize in national level competition - Mindspark Makeathon for innovative design and development of Smart Helmet.
- First prize in Hackathon 2020 for Developing a Software Tool to aid Search and Rescue by Calculating and Plotting Search Area from the Last Known Position of a Missing Aircraft.
- First prize in 6th National Level Technical Expo.
- Best paper award at 2nd IEEE International Conference on Emerging Smart Computing & Informatics ESCI 2020.
- Participation in technical competitions like Hackathon, DST & Texas instruments India innovation challenge design contest powered by AICTE, AVISKAR by SPPU etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality initiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**Response:** B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### **Response:**

To create awareness of gender equity in students & staff, Institute provide equal opportunity to male & female staff and students for all the activities & process which include administrative, teaching, co-curricular, extracurricular, sports, committees etc. Institute has taken major initiative for the promotion of gender equity by providing equal opportunity to male and female candidates in recruitment as well as appointment of female candidate on various academic posts.

##### **National Service Scheme:**

The Institute organizes various programmes under the National Service Scheme (NSS) to sensitize students about gender equity. Every year, institute organizes seven days camp in village in which male and female students attend the camp and equally participate in various activities such as women empowerment, Nirbhay kanya and Unnat Bharat Abhiyan .

##### **Participation in co-curricular and extra-curricular activities:**

Institute has taken initiative to promote gender equity among all students during formation of peer study groups and final year project group. Students are insisted to have minimum one girl student in each project group and peer study groups.

Institute organizes events like "Alacrity" Technical & Cultural Fest, Women's Day celebration and inter department sports competition to promote harmony & inclusion. Female students teams of the institute participate in various intercollegiate/university level tournaments. Institute always participates in state level drama competitions such as Firodiya and Purushottam Karandak with equal participation of female students.

##### **Our institute shows a great concern in providing the diversified facilities in terms of the following:**

##### **Safety and Security:**

The institute is emphasizing more on the safety and security of students and staff. Institute has made mandatory for everyone to wear i-cards in the college campus. At the entrance, there is strict security checks for all the persons. Institute has installed CCTV cameras at different locations. Security guards are available for 24 hours at different places in campus. The contact numbers and toll free help line numbers of nearby police stations are displayed on notice boards. Pick up and drop facility is available for girl students at the time of late night events.

##### **Internal Complaints Committee:**

Institute has formed the internal complaints committee (ICC) for female students and staff to address the

issues related to gender and human rights. The committee mainly works for resolving various issues and problems raised by female students and staff as well.

### **Counselling:**

Institute has allocated batch counsellors for female students who is responsible for monitoring academic and co-curricular performance of the students. Counsellor conducts one to one meetings with students to resolve their academic as well as personal issues. In case of issues related to femininity, the female students can discuss with female counsellor. In addition to this, professional counsellors are appointed at the institute level for addressing issues of female staffs and students.

### **Common Room:**

Institute has allocated a common room for the girl students. It is equipped with necessary facilities such as bed, first aid box and wash basin with mirror etc. Sanitary napkin vending machines and incinerators are available in ladies toilets.

<b>File Description</b>	<b>Document</b>
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Link for annual gender sensitization action plan	<a href="#">View Document</a>

### **7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

- 1.Solar energy**
- 2.Biogas plant**
- 3.Wheeling to the Grid**
- 4.Sensor-based energy conservation**
- 5.Use of LED bulbs/ power efficient equipment**

**Response:** A. 4 or All of the above

<b>File Description</b>	<b>Document</b>
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### **7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)**

- **Solid waste management**

- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

**Response:**

The Institute is committed to create an eco-friendly campus. The campus is kept clean & tidy with full of greenery. The institute ensures the green environment by a dedicated team of gardeners to take care of lawns, gardens and planting maintenance. The Institute has conducted the Green Audit and strives to implement the suggestions. Institute practices the waste management including solid waste management, liquid waste management, E-waste management and hazardous chemicals waste management. Usage of plastic is banned in the college premises.

**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 separate bins for dry and wet waste are used. 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. Faculty members are instructed to reuse the single side used papers for writing and printing work. In order to dispose sanitary napkins institute has properly installed sanitary napkin incinerator machine.

**Liquid waste management:**

All the toilets and bathrooms waste water lines are directly connected to the municipal drainage system. Waste water from laboratories is treated through proposed novel cavitation. Well-constructed drainage system in the form of closed collection tanks prevail in our campus. The tanks are regularly cleaned by external agency to avoid stagnation of water.

**E-waste management:**

The institute has the write off policy for managing the E-waste. The institute has identified and appointed a vendor for managing E-waste. After complete inspection and verification, 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 management vendor. The cartridge of laser printers is refilled outside the college campus.

The students are motivated to reuse the electronic components from the E-waste for their mini and major projects.

**Hazardous waste management:**

As per the university structure and syllabus all the branches in the institute have only one subject on chemistry in their first year. The chemistry lab has limited quantity of hazardous chemicals which are properly stored and maintained.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Link for Geotagged photographs of the facilities	<a href="#">View Document</a>
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

**Response:** Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>

#### 7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any



awards received for such green campus initiatives:

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

**Response:** D.1 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.7 The Institution has disabled-friendly, barrier free environment**

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Disabled-friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for persons with disabilities ( Divyangjan) accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

**Response:** E. None of the above

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>

**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**

**Response:**

Institute has taken following efforts /initiatives for providing inclusive environment to enhance harmony towards cultural, regional, linguistic, communal, social economic and other diversities.

- Every year the institute prepares an academic calendar to keep students, faculty, and staff reminded of key dates throughout the academic semester and year. It can also be useful for prospective

students, alumni, and parents as well. Academic calendar reflects information related to all major days (Like Teachers Day, Yoga Day, Shiv Jayanti etc.) which are celebrated at the institute level.

- To celebrate multilingualism and cultural diversity as well as to promote equal use of all national languages throughout the Institution, we celebrate Marathi Diwas and Hindi Bhasha Diwas. The aim of this celebration is to inform students about the history, culture and achievements associated with the language. The day often features book-reading events, quizzes, poetry and literature exchanges, and other activities that promote the language. The annual magazine of the institute, "Aayam" contains articles in different languages.
- The students of our institute along with faculty members actively help Warkaris during Palkhi celebration. They collect garbage and plastic waste during the procession (Dindi) from Pune to Pandharpur wherein more than five lakh devotees participate every year. They also distribute bio degradable plates among Warkaris to keep Pune city clean.
- Every year, the National Service Scheme (NSS) unit of the institute organize a week long residential camp in rural areas. Students performs street plays to make citizens aware of various social issues such as women empowerment, farmer suicide, female foeticide and gender equity etc.
- The institute always contributes at the time of natural disasters by providing financial help, supplying food items, and cloth donation to the people of affected area through NSS unit. Apart from that institute organize disaster management workshop with the support of National Disaster Response Force (NDRF), Fire and Security Association of India (FSAI) and municipal fire brigade to train students to deal with any natural calamity.
- To celebrate Women's day, the institute organize various sessions for women employees and students for increasing awareness related to women's rights, safety, security and health issues.
- To protect environment and to preserve our ecosystem institute routinely organize activities like forest conservation, tree plantation, riverside cleaning and traffic management. These activities protect our cultural heritage and make our students active citizen of Swachh Bharat Mission.
- Donating blood is a great way of giving back to our community because there is a constant need for blood in blood banks. The institute organizes blood donation camps in every semester to motivate students and staff members to donate blood voluntarily.
- Student Development Organization (SDO) of college looks after the protection of rights and supervises the development activities of the students. Board of Student Development (BSD) promotes and co-ordinates the different students' activities for better corporate life. BSD tries to nurture students' mental, physical, cultural growth with various activities to improve their overall personality and to make them civilized Indian citizens to compete in the globalized world.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

### 7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

#### Response:

Institute has taken initiative to sensitize and inculcate values, rights, duties and responsibilities of citizens through activities mainly organized by National Service Scheme (NSS), Student Development/Welfare Organization (SDO/SWO), Internal Complaints Committee (ICC), Staff/Student Grievance committee, SC/ST/OBC Reservation Committee, Committee for students with disabilities, Anti-ragging committee, Discipline Committee and department.

Institute takes consistent effort to inculcate **values** among students. Institute always put best towards overall development of the students by organizing expert lecture on “Universal Human Values” in early days of their engineering education. Apart from technical subjects, students are asked to enroll for MOOCs courses which promote human values and ethics in them. FE students are engaged in the course “Ethics in Engineering Practices” which helps in the holistic development of the students. Throughout the year, NSS ensures to conduct activities such as visits to historical places, tree plantation, pollution awareness camps etc. in order to preserve national, social, environmental and historical values.

Institute creates awareness about human **Rights** as per constitution obligation. The preamble of constitution obligation is displayed in college corridor. The Board of Students’ Development (BSD) looks after the protection of rights and supervises the development activities of the students. Internal Complaints Committee (ICC) sensitizes about women rights and gender equity through various activities like “Abhivyakti”. NSS and SDO/SWO units take remarkable efforts to celebrate constitutional day. Voting awareness program is conducted to make students aware about voting rights and also help them to enroll their names in the voters’ list.

Students and employees are sensitized about constitutional obligations related to **duties and responsibilities** through the activities like tree plantation, Swachh Bharat Abhiyan, computer literacy sessions, street plays on social issues, yoga and physical exercises, fort conservation, cloth donation, and volunteering during pilgrimage programs etc. NSS unit regularly organizes various activities and annual residential camp to sensitize students about social responsibility. It also extends support through Unnat Bharat Abhiyan in which students carry out the survey of socio economic problems of the rural areas. NSS and SDO/SWO units take remarkable efforts to celebrate Independence Day, Republic Day, Yoga day, and birth anniversaries of great national heroes etc. to revive the national spirit, duties and rights defined by the constitution.

All the departments actively organize social and techno-social visits. The objectives behind such activities are to make students aware of responsibilities towards environment, persons with disability, senior citizens and poor students by organizing social visits to old age homes, schools for blind, orphanages, etc.

Institute also extends a helping hand to raise fund to support the emergency assistance scheme for relief of the deserving families and individuals affected by natural calamities. College raised “Kerala Relief Fund” in 2018 ,“Maharashtra Flood Relief fund (Kolhapur and Sangli)” in 2019 and “Funds for martyrs’ kins of the Pulwama attack” in 2019. Institute has also donated essentials and food products to the people of affected zones. NSS unit visited the affected zone and joined hands with the rescue team for rehabilitation of flood victims and their families.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

Institute celebrates/organizes various national and international commemorative days, events and festivals along with birth anniversaries of the great Indian personalities which are as follows:

**Republic Day and Independence Day**

Every year Institute celebrates Republic Day and Independence Day with great enthusiasm where all staff and students gather at one campus along with the office bearers. The program starts with flag hoisting by the chief guest; usually a personality from defense background is invited as a chief guest; followed by National Anthem and cultural programs.

### **Mahatma Gandhi birth anniversary**

Institute celebrates Mahatma Gandhi Jayanti by paying tribute. The NSS unit organizes mass pledge in institute in accordance with the Prime Minister's urge for 'Swaachh Bharat Abhiyaan'.

### **Shahu Maharaj Jayanti**

Chhatrapati Shahu Maharaj Jayanti program is organized every year by All India Shri Shivaji Memorial Society(AISSMS) in campus on 26th June. All the institutes under the ambit of AISSMS gather for the program wherein staff and students are felicitated for their remarkable achievements in academics and various activities.

### **Shivaji Maharaj Jayanti**

Institute celebrates Chhatrapati Shivaji Maharaj Jayanti every year on 19th February. On this occasion rallies and tableaus are organized to commemorate our respect towards him. Students perform traditional "Dhol Vaadan" on this occasion.

### **Teachers' Day**

Institute celebrates Teachers' Day every year on 05th September in remembrance of Dr. Sarvepalli Radhakrishnan. Felicitations and awards are given to the teachers for excellent performance.

### **Engineers' Day**

Every year, 15th September is celebrated as Engineers' Day in the honour of Bharat Ratna Mokshagundam Visvesvaraya. Institute organizes technical projects and poster competition related to the social issues and technical advancement.

### **National Science Day**

Institute celebrates National Science Day every year on 28th February to mark the discovery of the Raman Effect by Indian physicist Sir C. V. Raman. Visit to Inter-University Centre for Astronomy and Astrophysics (IUCAA) and Science Park are organized. Guest speakers from industry and science laboratories are invited for their valuable knowledge and recent inventions.

### **International Yoga Day Celebration:**

Institute celebrates International Yoga Day every year on 21st June. On this day students and staff members are motivated to perform yoga and other physical exercises. Expert talks are organized to create awareness of yoga.

### **Dr. Babasaheb Ambedkar Jayanti**

Institute celebrates Dr. B.R. Ambedkar jayanti every year on 14th April. A tribute is given to Dr. Ambedkar by conducting a cordial ceremony in his memory.

### **Hindi Bhasha Divas**

Institute celebrates “Hindi Bhasha Divas” every year on 14th September. Various activities like essay writing competition, poetry recitation, idioms writing competitions etc. are conducted.

### **Marathi Bhasha Divas**

Institute celebrates “Marathi Bhasha Divas” every year on 27th February to mark the birth anniversary of eminent Marathi Poet Kusumagraj aka V. V. Shirwadkar. A book exhibition on Marathi literature is organized in the library. Through different competitions Marathi language is promoted.

### **Akshay Urja Divas**

Institute celebrates “Akshay Urja Divas” every year on 20th August to create awareness about development of renewable energy in India.

<b>File Description</b>	<b>Document</b>
Link for Geotagged photographs of some of the events	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>
Link for Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## **7.2 Best Practices**

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

### **Best Practice I**

**Title: Multimodal Communication Skill Development Program**

**Objectives:**

- To identify students with poor written, verbal communication and presentation skills.
- To make students realize the importance of communication in technical world.
- To improve presentation and communication skills of students.
- To inculcate the art of conversation among the students.

- To instill self-learning habit among the students.

## The Context

Most of the students admitted in first year are from vernacular background who are technically able but weak in soft skills which makes impact on their placement. Taking this into consideration, the Institute has initiated “Multimodal Communication Skill Development Program”.

Language labs are becoming center of attraction at institutions as they provide reliable and structured learning environment to the students. Technological changes are motivating faculties to create more interactive learning scenarios for the students. Theoretical learning cannot ensure effective development of language skills. To incorporate joyful and interactive learning, a “Multimodal Communication Skill Development Program” plays a key role in inculcating essential language skills such as reading, writing, listening and speaking. More comprehensive self-learning environment can be provided to the students with the use of digital media as this practice does not require any hardcore technical skills for effective implementation.

A Multimodal Communication Skill Development Program would help students with written, and verbal communication skills. For students, the program will provide a central support system as they learn to communicate in multimodal ways. Specifically, students will be able to meet with either a peer tutor or a peer mentor and students are supported in one-on-one or small group sessions focused specifically on communication.

## The practice

- **Use of Language Lab software:** For improvement in reading and verbal communication skills of the students language lab software is used.
- **Open Course Ware (OCW) assignment:** Students are asked to watch video lectures available on open course ware modules and write brief description of it in the prescribed format as an assignment. This improves the listening and writing skills of the students.
- **50-10 module:** During a 60 minutes lecture, 50 minutes are for teaching by the faculty member and 10 minutes are given to student to summarize the contents. This improves the presentation skills, verbal skills and confidence of the students.
- **Library hour:** Every week library hour is incorporated in regular time table to instill self-learning habit. The students refer to books/journals and write summary of the contents read. This helps to improve the written communication skills of the students.
- **Lexicon Power:** Every day a new word and its meaning is written on a display board to improve the vocabulary of students.
- **Campus to corporate readiness program:** To inculcate employability skills in the students, various programs are conducted at institute level in collaboration with reputed industries like Forbes Marshall, Institute of Holistic Healing etc.

## Problem encountered

- Due to limited number of license for language lab, the batch size is restricted to 20.
- As the activity is carried out after regular academic time table, students are less keen to attend the session.

## **Evidence of success**

- Noteworthy participation of students in paper publications and project competitions.
- Significant improvement in the placement.
- Students are able to solve case study assignment effectively.
- Students are able to demonstrate competent written and verbal communication skills during theory, oral and practical examinations.

## **Best Practice II**

### **Title: Assistive Technology initiatives.**

#### **Objectives:**

- To trigger young minds towards day to day challenges of the specially abled and elderly people.
- To develop projects through research and innovation in assistive technology.

#### **The context:**

Every human being in the society has the fundamental right to live independently with dignity. Specially abled and elderly people have to face many challenges related in their day to day life. With the help of modern technology it is possible to find affordable solutions to these challenges.

The focus is on mobility and education as it is one of the fundamental requirements of every individual to live with dignity and independently. We expect to create an eco-system that helps to sensitize younger generation towards day to day challenges of the specially abled and elderly people.

#### **The practice:**

- Teacher sensitizes the students about the social responsibility towards specially abled and elderly people through social visits.
- Teacher motivate students to start with mini project at third year level which can be continued further as their final year project. Review is taken time to time to observe their progress.
- Once the project is ready, students are asked to promote their ideas by participating in various events.

#### **Problem encountered and resource required:**

##### **Problem encountered:**

- As specific components are required, procurement of these components is often very expensive and lengthy process.
- It is difficult to give generic solutions due to unique needs of individuals.
- It is difficult to get the requirements and database required for the project from local hospitals.
- Initial investment in such projects is normally high.

##### **Resources required:**



Laboratory infrastructure, workshop facility.

### Evidences of Success:

- Students have completed the projects on Electronic wheelchair, Prosthetic leg, haptic arm, hand gestures.
- Students have participated in Poster and Project competition and won award.

File Description	Document
Link for Best practices in the Institutional web site	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

**Response:**

### Institutional Distinctiveness

#### 1.The saga of Royal Heritage-

All India Shri Shivaji Memorial Society, established in 1917, is a premier educational institution in Pune. It is founded by visionary Shri Shrimant Chattrapati Shahu Maharaj of Kolhapur to promote the noble cause of education. The foundation stone of AISSM Society was laid by the auspicious hands of his Royal Highness, the Prince of Wales on 19th November, 1921 in Pune. It was established with the well-defined objective to bring about holistic development of students and to create technically skilled manpower in various fields. It is a result-oriented Society dedicated to the noble cause of Military, General, Technical, and Management Education in India. It functions beyond race, caste, creed, religion political spirit. The Society Management is very pragmatic progressive. Since its inception in 1917, it has been the Society's endeavor to continuously improve its initiatives. Today the Society has made a huge foray into the noble field of education, meeting the all-around requirements on various fronts including emerging areas. For it is to succeed, we have preserved our royal heritage and also provided the most modern infrastructure to our institute. With its distinctive mission a history that has made it a leader in the field of education. Education today, not only focuses on imparting knowledge skills but also on the overall development of the students. With state-of-the-art infrastructure and dynamic faculty, ASSMS is marching ahead on all avenues of education right from primary schooling to specialized technical institutes. With this legacy of over 100 years we have enriched the educational scenario in the city by offering a rich heritage, quality education and a dynamic incubation cell for the young minds to perform experiment .

#### 2.Location Privilege-

Our institute is centrally located in the heart of the Pune city. The institute is just a few steps away from

Pune Railway station and at a walking distance from the Bus Terminus. The Pune international airport is just 6 Km away. As it share close proximity with city center, it has an added advantage of location so it provides best connectivity in terms of all types of transport and easy access to students living in various parts of city. Apart from this it is convenient and time saving for all professional and experts from various industries to commute to institute for various activities like seminars, workshops and placement drives. The neighborhood of institute is surrounded by many industries and commercial buildings still it has green lavish campus with plenty of space for all cultural and sports activities. Our institute is also considered as first choice and most preferred location for organizing various pool campus and various competitive examinations. The institute has the vision to uplift common masses by rendering value added education. To achieve this institute is continuously working towards creating engineers receptive to the changing demands of the global market.

File Description	Document
Link for appropriate web in the Institutional website	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

## 5. CONCLUSION

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### Additional Information :

In the current academic year, Institute has started new program - "Artificial Intelligence and Data Science". Institute has been awarded as -

- Best Private Engineering Institute (2019-20) in a Survey conducted by Outlook (Rank - 79)
- Best Private Engineering Institute (2019-20) in a Survey conducted by WEEK MAGAZINE (Rank - West-19 and All India 103).
- Top Best Private Engineering College (2017- 18, 2018-19 & 2019-20) in survey conducted by "INDIA TODAY-MDRA"
- Best Private Engineering Institute (2018-19 and 2019-20) in Survey conducted by TIMES
- 10 Best Private Educational Institute of India" in a survey conducted by "Knowledge Review Magazine", Mumbai (2018-19).
- Best Private Institute (2018-19) in a Survey Conducted by Business World (68 Private & 128 Overall).
- Top Private Educational Institutions in India (2018-19) in a Survey Conducted by Business Connect.
- Best College in Pune (2017-18) by Fire and Security Association of India.
- Engineering Education Excellence Award 2015 by Indo-Global chamber of Commerce Industries & Agriculture

Principal Dr. P. B. Mane has been awarded as the Best Principal (Urban) on the occasion of Foundation Day awards - 2021 of Savitribai Phule Pune University. This award by the affiliating University is the outcome of all the effective processes practiced in the institute and the efforts as well as hard work of all the students, teaching and non-teaching staff members.

### Concluding Remarks :

The institute adheres to the vision, mission and quality policy in all its processes and activities which has enriched the quality of education imparted. Institute follows curriculum of affiliating University. All the programs have CBCS and offer elective courses. Value added courses are conducted for holistic development of students. Based on the feedback analysis corrective measures/progressive steps are taken.

Institute caters to the needs of learners. Mentor-mentee system helps student to resolve their academics/personal/career issues. Teachers use innovative teaching-learning methodologies and ICT tools. To support students' remote learning, almost 1000 videos prepared by teachers. Resource material was shared through LMS.

Institute has received research grant of Rs. 69.23 Lakhs. Teachers have published 426 research papers in UGC Journals, 335 in other reviewed journals and 160 books/conference publications. 132 workshops/seminars on Research Methodology/IPR /entrepreneurship development were conducted. Consultancy/testing policy has resulted into revenue generation of Rs. 10 Lakhs. iConnect program has led to 5 center of excellences and 44 MoUs. 108 extension activities were organized by NSS.

61% students availed benefits of scholarships/free-ships provided by the Government. The T&P Cell prepares students for placements through Campus to Corporate Readiness Program which increased placements to 353

with highest package of 12 lakhs in 2019-20.

The study circle of institute arranges special coaching for competitive examinations. One of our students secured 63rd position in UPSC. Activities of Innovations, Incubation – EDC have resulted into 43 startups/entrepreneurs.

Institute follows Performance Based Appraisal System. Based on the scores, the institute rewards the best teacher with cash prize.

IQAC of institute assesses, analyses and ensures quality. IQAC conducts internal academic/administrative audit to ensure regular academic processes and guides /facilitates for participation in NIRF and preparation for accreditations.

Institute is committed to respect equality and diversity in each individual. It has a friendly campus for differently abled students.

Renewable energy resources are used to save energy. Water conservation facilities are available. Institute's green campus has adopted environment-friendly policies with green audit and energy audit.

The best practices include multimodal communication skill development, assistive technology initiatives, 50:10 module, peer study group, reward system, iConnect etc.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p><b>Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented</b></p> <p>1.2.1.1. <b>Number of Programmes in which CBCS / Elective course system implemented.</b>            Answer before DVV Verification : 9            Answer after DVV Verification: 8</p> <p>Remark : DVV has made the changes as per IIQA.</p>																				
2.1.2	<p><b>Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)</b></p> <p>2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>310</td> <td>212</td> <td>224</td> <td>201</td> <td>212</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>165</td> <td>173</td> <td>166</td> <td>165</td> <td>170</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per input 2.2</p>	2019-20	2018-19	2017-18	2016-17	2015-16	310	212	224	201	212	2019-20	2018-19	2017-18	2016-17	2015-16	165	173	166	165	170
2019-20	2018-19	2017-18	2016-17	2015-16																	
310	212	224	201	212																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
165	173	166	165	170																	
2.3.3	<p><b>Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )</b></p> <p>2.3.3.1. Number of mentors            Answer before DVV Verification : 118            Answer after DVV Verification: 117</p>																				
2.6.3	<p><b>Average pass percentage of Students during last five years</b></p> <p>2.6.3.1. <b>Number of final year students who passed the university examination year-wise during the last five years</b>            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>566</td> <td>467</td> <td>487</td> <td>594</td> <td>556</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	566	467	487	594	556										
2019-20	2018-19	2017-18	2016-17	2015-16																	
566	467	487	594	556																	

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
600	522	506	586	581

**2.6.3.2. Number of final year students who appeared for the university examination year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
568	510	508	621	612

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
604	523	508	587	581

Remark : DVV has made the changes as per provided report of final year students who passed / who appeared by HEI.

**3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**

**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**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
18	06	08	07	04

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
00	00	00	00	00

Remark : MoUs has not proper reflect in provided report by HEI.

**4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

**4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
108.94	88.00	78.52	121.68	80.94

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
119.82	31.79	154.92	65.73	118.37

Remark : DVV has made the changes as per provided report of audited statement by HEI.

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the last completed academic year**

4.2.4.1. Number of teachers and students using library per day over last one year

Answer before DVV Verification : 322

Answer after DVV Verification: 64

Remark : DVV has made the changes as per average of teacher and students using library per day on (dates)

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
69.37	64.59	50.83	46.69	42.25

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
56.08	58.99	48.31	23.82	25.44

Remark : DVV has made the changes as per provided audited report by HEI.

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

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
8	9	16	2	7

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
4	5	10	1	6

Remark : DVV has not consider provided certificate of appreciation.

7.1.6 **Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:**

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions / awards**
5. **Beyond the campus environmental promotion activities**

Answer before DVV Verification : A. Any 4 or all of the above

Answer After DVV Verification: D.1 of the above

Remark : DVV has made the changes as per provided certificate by HEI.

7.1.7 **The Institution has disabled-friendly, barrier free environment**

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Disabled-friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for persons with disabilities ( Divyangjan) accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Answer before DVV Verification : A. Any 4 or all of the above

Answer After DVV Verification: E. None of the above

Remark : Bills has not provided by HEI.

## 2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p><b>Number of programs offered year-wise for last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>9</td> <td>9</td> <td>9</td> <td>9</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	9	9	9	9	9	2019-20	2018-19	2017-18	2016-17	2015-16					
2019-20	2018-19	2017-18	2016-17	2015-16																	
9	9	9	9	9																	
2019-20	2018-19	2017-18	2016-17	2015-16																	



8	8	8	8	8
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2.2 **Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
310	212	224	201	212

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
165	173	166	165	170

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
598	543	504	601	571

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
600	522	506	586	581