

FOR

2nd CYCLE OF ACCREDITATION

AMRUTVAHINI COLLEGE OF ENGINEERING

AMRUTNAGAR, GHULEWADI TAL - SANGAMNER, DIST - AHMEDNAGAR PINCODE - 422608 422608

www.avcoe.org

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

May 2021

<u>1. EXECUTIVE SUMMARY</u>

1.1 INTRODUCTION

The vision, multidimensional thinking of freedom fighter and philanthropist Hon'ble Sahakar Maharshi Bhausaheb Thorat laid the foundation of "Amrutvahini Sheti & Shikshan Vikas Sanstha" in 1978 at Sangamner. His altruistic vision & aspiration was to start & propagate the higher technical education to the students of rural area & ultimately boost the socio economic progress of the rural people. The legacy is flourishing under the guidance of Hon'ble Shri. Balasaheb Thorat, Revenue Minister, Government of Maharashtra.

Amrutvahini College of Engineering, Sangamner was established in 1983. It is approved by AICTE, New Delhi, Recognized by Government of Maharashtra & all the programmes are permanently affiliated to Savitribai Phule Pune University, Pune. At present, Institute offers eight under graduate engineering programmes in Mechanical, Production, Civil, Computer, Information Technology, Electrical, Electronics & Telecommunication, and Electronics Engineering and five post graduate programmes leading to Masters Degree in Engineering & Management in Mechanical, Civil, Computer, ETC& MBA. The Institute also has research centers in Mechanical & Civil Engineering. The total intake capacity of the Institute is 660 for under graduate programmes & 132 for post graduate programmes. Following are some of the hallmarks:

Eco-friendly (energy efficient), lush green & clean campus spread over 15.6 acres.

UG programmes are Accredited three times by NBA, New Delhi (excluding Electrical Engineering), Graded "A" by NAAC, Bengaluru.

ISO 9001:2015 certified by TUV SUD.

The Institute has been awarded as "Best Engineering College Award" under (Rural – Professional Category) from Savitribai Phule Pune University in the year 2010 and 2020.

Featured in "Gold Category" for last three years in AICTE-CII survey of industry linked technical institutes.

Conferred by Clean Campus Award (2017) and Clean and Smart Campus Award (2019) by AICTE, New Delhi and Energy Efficient Unit Award by CII in 2020.

Recruitment hub for TCS and is nodal centre of e-Yantra and Virtual Lab of IIT Bombay. Impaneled with Unnant Maharashtra and Unnat Bharat Abhiyan.

Excellent infrastructural facilities and academic ambience to strengthen the teaching-learning process.

100% Placement Assistance, Entrepreneurship Development & Competitive Examination guidance, Skill Development through Center of excellence, Value Added Courses & Foreign Language certification.

Vision

To create opportunities for rural students to become able engineers and technocrats through continual excellence in engineering education.

Mission

Our mission is to create self-disciplined, physically fit, mentally robust and morally strong engineers and technocrats with high degree of integrity and sense of purpose who are capable to meet challenges of ever advancing technology for the benefit of mankind and nature.

We, the management, the faculty and staff, therefore promise to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Lush green campus spread over 15.6 acres away from city with calm and pleasant environment and nonpolluting ambience.

Excellent infrastructure meeting to requirements as per Regulatory Authorities.

Three times accreditation by NBA, New Delhi.

NAAC Accreditation with A grade

TUV-SUD ISO 9001:2015 certification. (International academic certification)

All courses (UG and PG) are permanently affiliated to SPPU, Pune.

Strong Campus Placement Avg. 450 plus campus placements every year for last three years. (577 students in 2018-19; 461 students in 2019-20 and 140* students (till date) though affected by Covid-19 pandemic).

PhD research Centre (Mechanical and Civil Engineering)

Foreign Language Learning Centre (Japanese and German)

Good number of PhD qualified faculty members (26) and PhD pursuing faculty members (71).

Energy sustainable campus.

Strong alumni connect through Almashine portal. Total 6,381 numbers of alumni connected with this portal.

Industry Institute Interaction, MOUs, Placement, Internship, Expert Talk, industrial visits.

Institutional Weakness

- Consultancy and extension activities need improvement in few departments.
- R&D activities to be strengthened.
- Interdisciplinary research to be enhanced.
- English language proficiency of students to be improved.

Institutional Opportunity

- To enhance collaboration with nearby industries like Sugar Factory and Milk Dairy.
- To enhance collaboration with leading research institutions and industries for research projects with HAL, DRDO and consultancy with MIDC Sinnar.
- To enhance socio-economic development of rural area.
- To strengthen the departments by having 100% Ph.D. holder faculty.
- Interaction with foreign University through online platform.

Institutional Challenge

- To get featured in NIRF ranking.
- Inculcating R&D culture among students.
- Commercialization of IPR.
- Start up and entrepreneurship on wider scale.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institute implements the curriculum design and developed by Savitribai Phule Pune University, Pune. In the process of designing and developing the curriculum of affiliated University, our faculty members are contributing at different levels such as BOS, Subject Chairman and Members. The effective implementation of the curriculum is carried out as per the guidelines of BOS. By considering the Institute Vision, Mission, POs and PSOs of various programs, the academic activities are planned and conducted. In Academic year 2019-20, total 151 faculty members participated in various evaluation processes of the curriculum at University.

Detailed planning for the course delivery is done by the faculty members through identifying effective pedagogy, bridge and on and above contents, additional contents to fill the gaps based on predefined POs and Cos., IQAC regularly monitors effective delivery of the curriculum and corrective measures are initiated to minimize the deviations. The ISO Audits conducted in the mid of semester and end of semester serves the purpose of academic monitoring.

In the curriculum, 12.5 % courses address the experiential learning aspects, while 17% courses address cross cutting issues. All the students are involved in the project work while 91.44% of the students are involved in field work and internships. Various value added courses, competitive examination coaching, entrepreneurship development programs, soft skill development programs are frequently conducted to ensure overall development of the students and enhance employability skills. During last five years journey of academic excellence, 97 value added courses, having more than 30 contact hours, are conducted in association with various external agencies. The average percentage of students enrolled for value added / certificate courses in

last five years are 50.92% and have been increased to 83.42% in academic year 2019-20.

The feedback is collected from various stakeholders such as students, faculty, alumni, industry and parents. The suggestions are communicated to board of studies for consideration at the time of syllabus revision. Institution has implemented eleven types of feedback system for enhancement of teaching-leaning process and support facilities.

Teaching-learning and Evaluation

The institute is committed for imparting excellence driven engineering education through the robust teaching learning processes to ensure all round development of the students. 80% of the students are admitted through government administered process while maximum 20% seats can be filled at institute level through the transparent process.

The institute has sufficient number of well qualified, experienced and competent faculty (student to teacher ratio of 16.17, average teaching experience of 9.42 years and 26 number of faculty having Ph.D. qualification).

Different teaching methods and aids are used to engage the students in learner-centric education. Along with conventional tools, faculty also uses ICT enabled tools, e-learning resources including repository developed by institute and NPTEL MOOC courses. The advancements and innovations are also leveraged to make a visible impact on academic development. This has resulted in remarkable improvement in average passing percentage to 92% during last five years for the graduating students.

The institute encourages and practices experiential learning, participative learning and problem solving methodologies through industrial visits, internships, surveys, field work, project work, participation in various national level competitions like Hackathon, SAE etc.

To serve the students having different back grounds and abilities, the learning levels of the students are assessed and special efforts are taken for slow learners and advanced learners. Slow learners are assisted by providing course material, extra classes, learning process sessions, study group and academic counseling by tutor/mentors. The advanced learners are engaged in higher order 'thinking'. Additional opportunities are provided to such students to acquire advanced skills.

The institute follows "Outcome Based Education" philosophy for the measurement of levels of attainment of Program Outcomes and Course Outcomes. The internal assessment process is carried out transparently and efficiently. Examination related grievances are addressed as per the process laid down by the Institute and University in a time bound, efficient and transparent manner.

Research, Innovations and Extension

The Research and Development Cell imbibes research culture and encourages students and staff to actively involve in research, consultancy, innovation and patenting, and solution provider to industries and rural area. This platform provides an opportunity to blend research and education for fostering academic talent in better way. Institute has taken initiatives to develop ecosystem through R&D committee, IPR Cell, Start-up and innovation cell and implementation of NISP related activities. The PhD programmes offered by Mechanical and Civil Engineering with 8 approved research guides further reinforce the activities. Faculty and students are

encouraged to organize workshops, seminars, conferences at institute and are also sent to have participation at reputed institutes and foreign universities. The faculties are encouraged to pursue PhD from premier institutes.

Institute received fund of Rs. 1.15 crore from various Government and Non-Government agencies including University research funding and RPS scheme of AICTE. As an outcome of active participation in research, papers have been published in reputed international journals and (in

The availability of resources and expertise is also used to provide the services to various industries and government organizations. In last five years, revenue of Rs. 32 Lakhs has been generated through related activities.

The participation in various students competitions are building the research and innovation temperament within the students. Students also participate in rural developmental, social and environmental related activities through participation in National Service Scheme, Unnat Bharat Abhiyan and Unnat Maharashtra Abhiyan. Through participation, students understand the ground realities, professional ethics and responsibility towards society. Students are involved in providing technological solutions related to agriculture and rural development, Swatch Bharat, Tree plantation & Blood donation and has been appreciated

MOU provides the platform to interact with industries, institutes and professional organizations and helps to increase the opportunities to collaborate. 51 MOUs have been entered into and are being successfully executed. Through this collaboration, institute has received 48 awards / recognitions from various government and non-government organizations.

Infrastructure and Learning Resources

The sprawling green and clean campus is spread over 15.6 acres of land with 42858.2 sq.m built-up area. The academic infrastructure is equipped with the best of facilities to enhance the quality of teaching and learning process. Adequate budgetary provisions are made to maintain, renovate and augment the existing ones. The physical facilities incorporates 39 ICT enabled classrooms, well equipped and maintained 93 laboratories exceeding the legitimate requirements and research facilities & advanced machineries, 06 seminar halls, Training and Placement (CDC) cell having infrastructure at par with corporate, related academic and administrative rooms, rest rooms and common rooms, two spacious outdoor playgrounds, indoor sports activities with separate gymnasium facilities for boys and girls, hostel & badminton court. Library, 1222 sq.m in area, has 66735 numbers of books, e-journals, reading room facility and language Lab and 'Sakura', the Japanese Language center. The Library is automated using customized SackInfo 2.5 software. Institute has very strong IT infrastructure with a network of 1158 computers with 175 Mbps internet connectivity to fulfill the academic and research needs. The wi-fi zones are created to facilitate easy connectivity. Central Computing facilities are also created for the extended usage. The institute has implemented ERP in all the sections for smooth and efficient operations. The institute has 4 hostels with the capacity of 1044 boys and 612 girls and 05 canteens. Institute has proactively adopted the green initiatives such as solar roof top power plant with 400KW capacity, sewage water treatment plant 0.4MLD capacity and biogas plant (1000 Kg Capacity). 03 DG sets with having around 422 KVA capacities are available for power backup. Each of the equipment has 'maintenance history record' to monitor and ensure the availability of the equipment at all the times. The maintenance of campus facilities, sanitary services are outsourced while landscaping, regular civil and electrical maintenance are taken care by respective sections. The CCTV surveillance, firefighting system, elevator, huge space covered with parking sheds, bank and ATM, guest houses, Principal bungalow and staff quarters, health care centre with ambulance, mini shopping complex etc. are some of the reinforcing services available in the campus.

Student Support and Progression

Institute provides effective and efficient support system for overall development of students. In last five years, 80.50% students from different categories and sections have availed the benefits of scholarships under various schemes of government. The institute awards Amrut-Meritorious Scholarship of Rs. 6000/- per semester to 214 numbers of students scoring SGPA 9.5 and above. Also, total 4 meritorious students have received Cummins Scholarship as well.

Institute has all types of capacity building and skills enhancement initiatives including core and soft skills, and communication, life & computing skills. The institute has dedicated Career Development Centre(CDC) which guide, prepare and provides opportunities for campus placements, entrepreneurship and higher studies. CDC organizes sessions on personality development, industry trainings and visits, competitive examinations and also supports in getting industry projects and internships. Average 40 % students have been placed in reputed companies in India and abroad in last five years.

Institute promotes training and certification of foreign languages to enhance career opportunities and have developed "Sakura", the Japanese Learning Centre. Till now, 1223 students completed Japanese training and 142 students completed certifications while 468 students have completed German Language training in last 5 years.

Enough infrastructural facilities like play grounds and gymnasium have been provided for sport activities. Students actively participate in various games and competitions at different levels and have won prizes at zonal and represented at university level. Institute organizes mega cultural event, "Medha", every year and nearly 10000 students from AVCOE, sister institutes and other institutes participate enthusiastically. *'Mudra Club'* and *'Sahitya Sharada'* are forums for different forms of singing, poetry and writing. Every program of the institute has Students Associations which regularly organizes various educational, cultural and social activities.

The Institute has a well-defined mechanism for redressal of grievances of students through various committees formed as directed by regulating authorities.

Institute organizes alumni meet "MILAP" every year and around 400 alumni attend it. All departments regularly invite alumni for interactions and technical talks. Alumni contribute in formulation and evaluation of projects and seminars and help in organizing industrial visits, value-added courses, mentoring students through buddy schemes and placement.

Governance, Leadership and Management

The Vision and Mission statement of the institute were framed considering needs of rural panorama, socioeconomic condition and need for adequate technical skills. The top management including Board of Trustees, Chief Executive Officer, Manager, Governing Council (GC), College Development Committee (CDC), Academic Advisory Board (AAB), Principal and faculty focus on institutional goals. Principal provides effective leadership and administration for planning and implementation of academic, curricular and extracurricular activities. Principal & authorities essentially form different committees to provide "decentralized administration". Predefined plans are implemented through active participation of faculty and students in various committees. The perspective plan for next ten years is prepared by IQAC taking suggestions from all the stakeholders as feedback from all stakeholders play vital role in framing institution policies. This perspective plan is presented in AAB, CDC and GC. After detailed deliberations it is been approved. IQAC ensures effective implementation of the perspective plan by smooth conduction of academic activities.

Institute provides fund 'Amrut Nidhi' upto 50,000/- in case of medical emergency, gratuity scheme, Provident Fund, Tuition fees in EMI for wards of the staff, and residential facility. The institute promotes faculties for higher studies, short term courses & financial aid for conferences, workshops and seminars. For non-teaching staff, financial support is provided to pursue skill development. Group Medical Insurance is provided for all staff. In case of any emergency, personal loan is also provided to the staff through 'Staff Society'. The college follows a systematic Performance Appraisal System for all staff.

The institution annually hires Chartered Accountants for internal and external audits. In addition to this, consultants to give opinion on taxation and legal issues are available. The institution is ISO 9001: 2015 certified; hence all framed procedures are externally audited regularly.

The IQAC was constituted in 2015 even though it was first cycle of NAAC. The IQAC is functional and its main task is to mobilize and direct QMS in the institution. IQAC is coupled with NAAC, NBA and ISO units to implement QMS and adhere to minimum quality standards set by the institute.

Institutional Values and Best Practices

The institute strongly believes and follows human values and discharges social responsibilities. Morning session starts with Gayatri mantra followed by Saraswati Vandana and National anthem and concluded with National Song in the evening. The Code of Conduct is displayed on the website. Institute provides holistic development and equal opportunities to all the individuals.

The Institution has adopted many best practices for quality improvement and significant impact.

Among them, primarily is focused on 360 degree development of students' professional career and makes them confident and ready for campus placements, entrepreneurship and lifelong learning and to grow professionally. A unique 'Buddy Scheme' and 'Amrut-Expo' are important dimensions of this initiative. The 'Buddy Scheme' is hand holding for each student with alumni for knowledge sharing and confidence building while Amrut-Expo is the exhibition of projects, a platform provided for final year students. The project ideas are mentored, evaluated and approved by alumni working in industries. Periodic and final evaluation is done during project exhibition, where in cash prizes are awarded for best three projects. Further, Alumni support for product development and IPR registrations and idea support. The reinforcing activities such as Amrut Meritorious Scholarship, remedial classes, parents meet are additional initiatives.

Another best practice is to get the Institute closer to nature-loving /environmental stewardship and long-term sustainability. We rigorously follow energy conservation activities. 400 KW roof top solar power plant, 5 KW hybrid wind-solar power plant, solar water heaters at hostels, biogas plant (1000 Kg Capacity) and composting, water supply using gravity flow, solar street lights, LED lamps and 0.4 MLD sewage treatment plant has been installed. E-waste management is done by following trio of reduce, reuse and recycle. Ample number of succulent trees are planted which makes the campus "Green and Clean". AICTE and CII have recognized the efforts by conferring awards in green and energy-efficient category. Maharashtra Energy Development Agency (MEDA), Govt. of Maharashtra has also recognised the effort in energy conservation and management by

awarding second prize.



2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	AMRUTVAHINI COLLEGE OF ENGINEERING
Address	Amrutnagar, Ghulewadi Tal - Sangamner, Dist - Ahmednagar Pincode - 422608
City	SANGAMNER
State	Maharashtra
Pin	422608
Website	www.avcoe.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	M. A. Venkatesh	02425-259148	9972132130	-	principal@avcoe.o rg
IQAC / CIQA coordinator	R. S. Tajane	02425-259017	7020185122	-	ravindra.tajane@av coe.org

Status of the Institution	
Institution Status	Private

Type of Institution		
By Gender	Co-education	
By Shift	Regular	

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	01-01-1983

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

State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	06-01-2009	View Document
12B of UGC		

Details of recogn AICTE,NCTE,M	ition/approval by sta ICI,DCI,PCI,RCI etc	tionary/regulatory c(other than UGC)	bodies like	
Statutory Regulatory Authority	Recognition/App roval details Inst itution/Departme nt programme	Day,Month and year(dd-mm- yyyy)	Validity in months	Remarks
AICTE	View Document	30-04-2020	12	Academic Approval

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

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus									
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.					
Main campus area	Amrutnagar, Ghulewadi Tal - Sangamner, Dist - Ahmednagar Pincode - 422608	Rural	15.6	42858.2					

2.2 ACADEMIC INFORMATION

Details of Pro	Details of Programmes Offered by the College (Give Data for Current Academic year)											
Programme Level	Name of Pr ogramme/C ourse	Duration in Months	Entry Qualificatio n	Medium of Instruction	Sanctioned Strength	No.of Students Admitted						
UG	BE,Civil Engineering	48	HSC Science	English	120	60						
UG	BE,Compute r Engineering	48	HSC Science	English	120	120						
UG	BE,Electrical Engineering	48	HSC Science	English	60	58						
UG	BE,Electroni cs Engineering	48	HSC Science	English	60	53						
UG	BE,Electroni cs And Telec ommunicatio n Engineering	48	HSC Science	English	60	56						
UG	BE,Informati on Technology	48	HSC Science	English	60	60						
UG	BE,Mechani cal Engineering	48	HSC Science	English	120	87						
UG	BE,Producti on Engineering	48	HSC Science	English	60	6						
PG	ME,Civil	24	B.E.	English	18	18						

	Engineering					
PG	ME,Comput er Engineering	24	B.E.	English	18	9
PG	ME,Electron ics And Tele communicati on Engineering	24	B.E.	English	18	3
PG	ME,Mechani cal Engineering	24	B.E.	English	18	1
PG	MBA,Master Of Business Administrati on	24	ANY GRADUAT E	English	60	60
Doctoral (Ph.D)	PhD or DPhil,Civil Engineering	36	Post Graduate in Engineering	English	14	4
Doctoral (Ph.D)	PhD or DPhi l,Mechanical Engineering	36	Post Graduate in Engineering	English	22	9

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Profe	Professor				Associate Professor			Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government			1	14				34				123
Recruited	5	2	0	7	16	1	0	17	81	13	0	94
Yet to Recruit				7				17				29
Sanctioned by the Management/Soci ety or Other Authorized Bodies				0				3	J			72
Recruited	0	0	0	0	3	0	0	3	58	14	0	72
Yet to Recruit				0				0				0
											김 한 신성 공	

	Non-Teaching Staff										
	Male	Female	Others	Total							
Sanctioned by the UGC /University State Government				0							
Recruited	0	0	0	0							
Yet to Recruit				0							
Sanctioned by the Management/Society or Other Authorized Bodies				131							
Recruited	128	3	0	131							
Yet to Recruit				0							

		Technical St	aff	
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				57
Recruited	47	10	0	57
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers											
Highest Qualificatio n	Professor			Associate Professor			Assistant Professor				
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0	
Ph.D.	5	2	0	9	1	0	10	1	0	28	
M.Phil.	0	0	0	0	0	0	1	0	0	1	
PG	0	0	0	10	0	0	128	26	0	164	

Temporary Teachers										
Highest Qualificatio n	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

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

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

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

Programme		From the StateFrom OtherNRI StatesWhere CollegeStates of Indiais Located		NRI Students	Foreign Students	Total
UG	Male	2039	9	0	0	2048
	Female	1131	1	0	0	1132
	Others	0	0	0	0	0
PG	Male	119	0	0	0	119
	Female	60	0	0	0	60
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	12	0	0	0	12
	Female	1	0	0	0	1
	Others	0	0	0	0	0

Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	29	32	33	38
	Female	27	22	24	22
	Others	0	0	0	0
ST	Male	2	21	22	18
	Female	3	5	4	12
	Others	0	0	0	0
OBC	Male	247	225	218	213
	Female	169	127	127	148
	Others	0	0	0	0
General	Male	86	127	123	120
	Female	49	75	98	58
	Others	0	0	0	0
Others	Male	89	68	63	94
	Female	52	40	42	46
	Others	0	0	0	0
Total		753	742	754	769

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

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	421	459		461	461
File Description		Docum	nent		
Institutional data prescribed format		View	Document		

1.2

Number of programs offered year-wise for last five years

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

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18		2016-17	2015-16	
3361	3453	3456		3493	3776	
File Description		Docum	nent			
Institutional data in prescribed format		View	Document			

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
562	420	461	461	461

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2019-20	2018-19	2017-18		2016-17	2015-16	
1003	1049	904		1004	1070	
File Description		Docur	nent			
Institutional data in prescribed format		View	Document			

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	
195	205	202		216	207	
File Description		Docum	nent			
Institutional data in prescribed format		View	Document			

3.2

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18		2016-17	2015-16	
171	171	240		200	200	
File Description		Docum	nent			
Institutional data in prescribed format		View	Document			

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 50

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
104.04	132.58	134.30	104.42	91.72

4.3

Number of Computers

Response: 1125

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 ensures effective curriculum delivery through a well-planned and documented process through structured committees.

• Curriculum and academic calendar are designed and published by the Savitribai Phule Pune University.

Before commencement of each semester, principal calls meeting with Heads of the Department and finalize the academic calendar considering the institute events. All departments prepare their academic calendar incorporating departmental level activities such as industrial visits, Guest lectures, Value addition courses, workshops, seminar, conferences, unit tests, preliminary examination, tutor meetings etc. This is unanimously implemented by all departments.

- Subject allocation of faculty is done as per specialization and their choice by HOD. Subject distribution is planned well in advance for proper academic implementation.
- Class, laboratory and individual faculty time tables are prepared, preserved and displayed with prior approval of HOD and Principal.
- Lab manual, theory and practical teaching plans are prepared by faculty of the respective subject allotted before commencement of semester considering academic calendar and time table.
- Faculty maintain course file which contain following information:

Academic calendar, individual time table, syllabus, teaching notes, CO-PO-PSO Mapping, assignment, tutorial questions, ppt / handouts, class test and university question papers, MCQ's, e - contents for delivering online session and recording of practical video shooting etc.

- Academic monitoring committee regularly monitors theory and practical classes and takes a review of teaching learning process.
- Report of syllabus coverage, monthly class attendance and test marks are submitted to Dean Academics, Principal at the end of every month by HOD.
- Extra classes are conducted for direct second year admitted students for timely syllabus completion and make up lectures of learning process for all the students after class hours.
- Book bank facility is available for all the students through Central Library.
- Institute library is having ample number of reference books, text books, e-books, e-journals to cope up with recent trends and demand of industry. E-learning facilities are provided to all the faculty members of the institute which help them in effective teaching.
- SWAYAM, NPTEL, Pearson Education resources are provided to staff and student for qualitative

learning.

- Syllabus completion, monthly class attendance and test marks are conveyed to students through tutor and communicated to parents by post and through SMS.
- STTP, FDP's are conducted for faculty at college and department level for higher learning enhancement. For the students hands on training and workshop are conducted for effective teaching learning.
- Students are motivated for industrial visit, internship, hands on practice and sponsor industry project to gain experiential learning.
- Academic progress, grievances, feedback from stakeholders are taken and conveyed to Principal for strengthening curriculum delivery and overall improvement.
- Faculty members participate at various committees of the university such as Board of Studies, subject chairmen, paper setter, LIC committee who identify in the shortcoming of the curriculum delivery and covey to the concern authorities.

Based on result analysis and attainment of CO, PO and PSO corrective action are suggested and implement in subsequent academic year.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

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

Response:

- As per the directives of SPPU, academic calendar is prepared at institute level. Based on Institute's academic calendar, all the departments prepare its academic calendar including the events, curricular, co-curricular and extra-curricular activities.
- The university propose the dates for commencement and conclusion of semester, in-semester, endsemester ,online examination, TW/ Practical /Oral examinations and this schedule is reflected in institute's as well as department academic calendar and this schedule is strictly followed by all the departments.
- Teaching plan is prepared by each faculty which adheres to the academic calendar. Department monitoring Committee has standard procedure of monitoring activities that ensures smooth conduction of lectures and practical sessions. Attendance of student is daily observed and fills up in Sackinfo ERP software .Absences of student is communicated to parents via SMS regularly. If the students having attendance is less than 75%, then he has to attend the make-up classes of respective subjects. Status of syllabus completion, defaulter students is reviewed by HOD, class teacher and tutor teacher.
- As per academic calendar class test /assignment /seminar / tutorials /guest lectures /industrial visits/ value addition courses etc. are conducted. Reports of class test and assignments are taken as a part of internal evaluation.
- As per the schedule, unit test/prelim exam are conducted centrally and the report of the same along with the attendance are communicated to students as well as parents. For poor performance or any

absentee of students, parents of such students are called for counseling of student and taken corrective measures.

- The continuous assessment of Practical/Term work is done based on record conduction and viva (RCV/ACO).
- Value addition courses are planned in advance and its implementation is according to activity calendar. Similarly mapping of planned and conducted activities are verified.
- Students are encourage to select the project as per the society need, industry problems, and innovative rural based projects which helps to solves local need problems.
- Students' feedback is taken twice in a semester regarding faculty performance, and the report is communicated to the concern faculty through HOD for continual improvement.
- Learning process is conducted as per the schedule for slow learners as well as advance learners. Apart of this the remedial classes for the backlog students are conducted along with slow learners.
- If any deviation in curriculum implementation, it is responsibility of the concern faculty to plan and rectify the deviation.
- The continuous improvement is achieved through periodic audits and satisfying statutory requirements. A strong teaching learning process is created through quality management system following IQAC guidelines.

The adherence of these activities is continuously monitored twice in a semester through ISO audit in association with IQAC.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

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	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document
Link for Additional information	View Document

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: 14

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

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

Response: 97

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
24	24	19	21	09

File Description	Document
List of Add on /Certificate programs	View Document
Any additional information	View Document
Link for Additional information	View Document

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: 50.92

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
2671	2572	1747	1202	443

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

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:

The present curriculum of the SPPU has ninety one courses in programs conducted in institute, which address professional ethics, gender, human values, environment and sustainability related issues.

The curriculum has incorporated environment and sustainability issues in few courses are as follows:

- Architectural Planning and Design of Buildings: From this course students learn- to develop optimum planning, utilization of resources, how to use building byelaws, green building concept. Rain water harvesting and waste management system.
- Environmental Engineering: This course highlights the aspects related to air pollution, noise pollution, low cost waste water treatment systems.
- Geotechnical Engineering: This course highlights the causes and remedial measures of landslide. It

also enables the students to understand evil effect of subsurface contamination on subsoil and various methods to control subsurface contamination.

- Energy Audit and Management: This course highlights maximum use of renewable energy sources. Importance of energy conservation and management.
- Material Science: This course increases awareness among students about environment and green technology, nanotechnology, battery and solar materials and create attitude towards sustainable lifestyle.
- AICTE newly introduce the subject Environmental Studies in all disciplines to discuss about environmental pollution, science and technology associated with monitoring and control.

The curriculum has incorporated Human Values issues in few courses are as follows:

- Industrial and Technology Management: This course highlights management principles how to create human values such as honesty, discipline, sincerity. To create the awareness among students to follow the professional ethics, avoid the plagiarism of Patent, IPR, copyright.
- Information and Cyber Security: This course highlights the concept related to digital vulnerability and students should learn to protect data from malicious users or intruder.
- Road Safety Management: This course highlights need for strict enforcement of law to ensure greater safety on roads and an environment-friendly road transport.

The curriculum has incorporated Professional Ethics issues in few courses are as follows:

• Total Quality Management and Management Information System: To create awareness amongst students to follow professional ethics in the field of Engineering and Technology. Good ethical and professional practices are an essential parts of a reputed construction company. Frequently, civil engineering contractors knowingly/ unknowingly may hide mistakes and poor workmanship. In some cases, such defects may lead to the failure of structure. Considering these issues, it is very necessary to have knowledge of TQM and MIS along with its proper execution and implementation.

Gender equality issues as part of the curriculum is covered in co-curricular activities

- The girls and boys participate equally in various curricular / co-curricular activities such as Project group, seminars, paper presentation, group discussion, technical quiz, debate, extempore, etc. through departmental association activities.
- Induction programmes are arranged as part of curriculum on cross cutting issues. Guest lectures are arranged on human rights and health related issues.

The aforesaid topics are covered related to cross cutting issues in a curriculum. All departments conduct various on and above activities related to cross cutting issues (like freshers' party, farewell, quiz, etc.) under department association and NSS.

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

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

Response: 15.45

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
68	68	70	68	67

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<u>View Document</u>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

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

Response: 91.44

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

Response: 2928

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

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)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

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	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

810

enoneo • 86 8	,			
.1.1 Numbe	r of students admit	tted year-wise durin	ig last five years	
2010.20	2010.10	2017 10	2016.17	2015.16
2019-20	2018-19	2017-18	2016-17	2015-16
700	714	724	727	7(0)

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

870

870

870

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

792

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
562	420	461	461	461

File Description	Document
Average percentage of seats filled against seats reserved	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

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

Response:

The institution has defined strategy to identify the Advanced and Slow Learners and activities are conducted accordingly as per their identified level as mentioned below.

Identification of Advanced learners:

Advanced Learners are identified on the basis of internal assessment, performance in university examination, participation in various activities and their response in classroom as per the observations noted by class teacher and tutor.

Following Special activities are conducted for Advanced Learners:

- 1. Guidance for career planning.
- 2. Discussions/seminars/Training programs/ workshops by experts from Industry/Academia on technology advancements.
- 3. Provided the opportunities to work as student co-ordinator of State/National/International level Seminars, Conferences, workshops etc.
- 4. They are offered the exclusive book bank facility.
- 5. Encouraged to organize various activities like group discussions, technical quizzes, debate, Essay Writing etc. through department student association.
- 6. They are assigned a group of three to four slow learners to boost the slow learners confidence level.
- 7. Motivated them to do micro projects to inculcate practical approach apart from curriculum.
- 8. They are motivated to take up competitive exams like GATE, MPSC, UPSC, CAT etc.
- 9. Buddy Scheme to interact with renowned alumni for career guidance and encouragement to acquire niche skill set.
- 10. **"SMBT (Amrut) Scholarship"** of Rs 6000/-per semester is offered to the students having CGPA 9.5 and more in university exams.
- 11. They are encouraged and financially supported for membership of professional bodies like IEEE/CSI/ ISHRAE/ASI/IEI/IETE/ ISTE etc.
- 12. They are encouraged and financially supported to enrol in MOOC Courses such as Swayam(NPTEL).
- 13. They are guided to participate and present papers in various Seminars/ Conferences/Hackathon competitions/Workshops/ Inter-Collegiate Competitions organized by other colleges and benefitted in terms of event registration fees and travelling allowance from institution.

Identification of Slow learners:

The students are identified as slow learner who has poor academic record, whose response time in class/ laboratory session is more and who needs continuous attention/motivation to participate in curricular/ Cocurricular/ Extracurricular activities.

Activities for Slow Learners:

- 1. Provision of simple and standard course material and question bank with answers.
- 2. Extra classes for the critical syllabus contents / as per the need/performance in class test are conducted.
- 3. Study group system with the help of the advanced learners to boost the confidance level.
- 4. Additional "Learning Process" (LP) sessions are scheduled for detailed discussion on latest taught syllabus content.
- 5. Subject teachers conduct remedial classes for the courses in which slow learners found unsuccessful in university examination.
- 6. Appreciation for their achievements.
- 7. The tutors interact with their parents after sharing the report card through sms/post for the students' progress.
- 8. Buddy Scheme to interact with renowned alumni for career guidance and counselling them to improve academic performance.
- 9. Dr Rajeshree Bhavsar, professional counsellor has been appointed for the students counselling.

File Description	Document
Upload any additional information	View Document

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

Response: 16:1	
File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

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

Response:

The institute encourages and practices experiential learning, participative learning and problem solving methodologies by employing student centric methods described below.

1. Industrial Visits

Industrial visit are organized to strengthen industry connect and facilitate experiential learning. Every department organizes minimum one Industrial visit per semester per class for students to get exposure to the industrial practices, manufacturing processes, equipment and machinery.

2. Industry Internships

The average 100 number of students undergoes industry internships of 2/3 weeks during summer and winter vacations to improve problem solving skills as they work on small projects and learn industrial practices.

3. Project Based Learning(PBL)

Final year projects, mini projects and Project Based Learning are the important components in the curriculum to do active experimentation and learn by doing the things.

About 1000 students participated in Gandhi Global solar challenge.

Institute has exclusive PBL lab for students to work on real time industry projects and get hands-on experience of using real world components, instruments and machinery.

4. Participation in Unnat Maharashtra, Unnat Bharat Abhiyan

The institute is impanelled with Unnat Maharashtra Abhiyan, one amongst 12 private institutes since 2017 and Unnat Bharat Abhiyan from 2019. This has facilitated participative and experiential learning in social and holistic development like evaluation of rural water supply schemes, electric supply system analysis and small business analysis, rejuvenation of rivers, understanding the developmental issues and helping the rural people.

5. NSS field work

NSS unit of the institute support experiential learning through social and environmental issues by undertaking various field activities such as Clean and Green India campaign, save water-save life campaign, tree plantation drives, health is wealth campaign, road safety awareness drive and computer literacy campaign.

6. Surveys

Management (MBA) students regularly undertake surveys as a part of curriculum and project work.

Civil engineering students are actively involved in a Soil Health Card Scheme. They collect soil samples from their neighbourhood, perform laboratory analysis for N, P, K, pH and electrical conductivity on soil samples and prepare a report on soil health to help farmers for selection of crop.

7. Participation in Hackathons, SAE (Society of Automotive Engineers) Competitions

The institute has taken keen interest in participation for Smart India Hackathon. Teams from institute achieved prizes in year 2018, 2020 and selected for final round in 2019. Participation in AICTE Chhatra Vishwakarma Award and selected for final round in last three years. The institute has an active SAE India Collegiate club through which students participate in various competitions. These activities develop their problem solving, design and manufacturing skills.

8. Visits to Exhibition

Students participate and visit various exhibitions regularly to get the exposure to new trends in

technologies and products.

9. Innovative pedagogy techniques

Faculty promotes participative learning through innovative pedagogy techniques such as group discussions, group activities, quizzes, role-play, fun game, learning through art (Rangoli) etc. during teaching learning process and through department association activities.

10. Club activities

Experiential and participative learning is facilitated by interdepartmental Club activities like IOT, hobby, Antenna, NLP, VLCI, robotics etc.

File Description	Document
Upload any additional information	View Document

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

Response:

The faculty effectively use ICT enabled teaching learning methodologies and advanced technology for content delivery and learning. The institute has adequate facilities for providing interactive, engaging, flexible and convenient ICT enabled learning environment for the learners detailed as below.

- Class rooms (32 Nos.) and Seminar halls (7 Nos. with audio visual aids) are equipped with LCD/DLP projectors, internet/Wi-Fi connectivity and portable public address systems for the delivery of digital/multimedia contents.
- Innovative pedagogy techniques like Power Point Presentations/Google Slides, animations, info graphics and videos; you tube channels by faculty for delivery of course content using ICT tools.
- Various e-learning resources employed include subject specific web resources, Swayam/NPTEL platform, MOOC platforms. Students successfully completed various MOOC certifications under SWAYAM-NPTEL and Coursera learning platform.
- Central library of the institute is ICT enabled with multimedia PCs, internet connectivity, access to institutional repository of class notes, e-Books, e-Journal subscriptions, audio-visual section and library OPAC system.
- The soft skill development practical are conducted in dedicated language laboratory with Spoken Tutorials, Orell software and web resources.
- Video recordings containing demonstration of the laboratory experiments are made available to the students through institute repository.
- The institute is nodal centre for "Virtual Labs" in association with IIT Bombay, under the NMEICT initiative of Ministry of Education for practical. This gave an additional dimension in course conduction during Covid-19 pandemic.
- A separate Japanese Language Learning centre (SAKURA) with smart interactive display facility is established in the institute. Recently 248 students learned Japanese language.

- A dedicated Swayam Prabha Channel facility is made available on DTH television for students and teachers in seminar hall. The Swaayam Prabha has curriculum-based course contents provided by NPTEL, IITs, UGC, CEC, IGNOU, NCERT and NIOS.
- The institute conducts online Multiple Choice Question (MCQ) based tests through 'MYEXAMO', 'Sackinfo" ERP software and Google classroom platform.
- Learning management system (Moodle), Microsoft Teams and Google Classroom are used by faculty to provide assignments and for sharing the learning resources.
- Invited expert talks, guest lectures, training programs, seminar, workshops and webinars are conducted regularly using ICT facilities.

The ICT enabled learning environment with innovative pedagogy techniques has facilitated collaborative learning, open and flexible delivery of the contents and has enhanced the students ability to learn, think, create and communicate.

File Description	Document
Upload any additional information	View Document

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

Response: 18:1

2.3.3.1 Number of mentors

Response: 178

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

2.4 Teacher Profile and Quality

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

Response: 106.27

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

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

Response: 8.52

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
26	20	15	14	12

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)	<u>View Document</u>
Any additional information	View Document

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: 9.25

2.4.3.1 Total experience of full-time teachers

Response: 1803

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document
2.5 Evaluation Process and Reforms

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

Response:

Transparency in the mechanism of internal assessment:

The internal assessment process is carried out transparently as a part of teaching learning process for internal evaluation of laboratory term work and seminars. Though not a part of university curriculum, additionally Unit tests and preliminary examination are introduced by institute to have continuous learning and evaluation. An examination committee has been constituted to coordinate and communicate the internal examination activities to the students, teachers and administrative staff.

The evaluation process, the rubrics of evaluation and distribution of marks for internal assessment are communicated to students by the respective teacher during lecture and practical.

Internal assessment of Unit tests and Preliminary examination-

- 1. Schedule of Unit Test-1, Unit Test-2, Prelim exam for First, Second Year and Mock Insem, Prelim Exam for Third Year and Last Year is included in academic calendar and communicated to student at the time of commencement of semester.
- 2. It is a practice of the college to show internally evaluated answer books to the students in the class for discussion and students are counselled regarding areas for improvement.
- 3. The internal assessment marks of Unit tests and prelim exams are displayed on the notice boards and also circulated in class for students' information and acknowledgement.

Internal assessment of laboratory work/term work-

- 1. Two internal examiners are appointed for each subject Term work assessment to evaluate final internal marks. Institute also notifies the criteria for allocation of term work marks through class counselling.
- 2. Continuous assessment for all Laboratory term work is done in presence of the students. The laboratory work evaluation is the basis for the award of term work marks. The evaluation is based on A-C-O (Attendance and Punctuality- Conduction-Oral) / R-C-V (Record- Conduction-Viva) rubrics for journal evaluation.
- 3. Final term work marks are displayed at the end of each semester for student information.
- 4. Students are free to interact with the teacher to resolve grievances if any regarding the assessment.
- 5. At the end of each semester, HOD and Principal approve the internal marks for all the students.

Internal assessment of seminars-

The internal assessment of seminars is transparently carried out on the basis of rubrics. The evaluation rubrics are communicated to students so that they can focus on various aspects of evaluation and be aware with the expectations.

File Description	Document
Any additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, timebound and efficient

Response:

Internal examination related grievances-

- 1. Term-work marks are given by following continuous evaluation process based on the performance of the students throughout the semester in assignments, internal Unit Tests, record in practical journals, conduction of experiments and internal viva-voce (regularly signed by the students in RCV record). Grievances raised by the students regarding term-work marks are resolved collectively by subject teacher and HOD.
- 2. In case of any discrepancies in the marks obtained in internal examination (Unit tests and preliminary examination), students can approach the subject teacher. The answer sheets are once again evaluated in the presence of the students and the grievances are resolved.

External examination related grievances-

Theory Examinations:

External (University) examination grievances are addressed by examination section as per the process laid down by the SPPU. Institute follows a time bound, efficient and transparent process for the examination related grievances of the students. An exclusive display of detail processes to be followed for grievance redress is provided at examination section and website. In addition, the College Exam Officer (CEO) is appointed by the institute as per university guidelines for the smooth conduction of University exams and addressing exam related grievances as per the University rules and regulations. A separate team of four senior faculty members is appointed as 'internal squad' that takes care of students difficulties like loss of hall tickets, locating the exam hall, identity card issues etc. and monitor examination process. A documentary of university theory examination process is also available on institute website.

- Students grievances related to discrepancies in the marks obtained in the University exams is addressed through a two-step process prescribed by the University,
- 1. Application for obtaining photocopy of assessed answer sheets
- 2. Application for verification and revaluation.
- Examination section displays notices for filling photocopy form, verification and revaluation form giving details about the applicable fees and last date of submission.
- Upon the declaration of the University result online applications for the photocopy of the assessed answer sheets is made by the concerned student/examinee.
- A soft copy of the assessed answer sheet is sent by the University to the concerned student by email.
- Students then apply for the verification and revaluation process by filling online form on the

University portal.

- Students submit verification and revaluation fees through challan to the university.
- After the process of verification and revaluation is completed by the University, the student section receives the revised mark lists from the university.
- Examination section then collect the old mark sheet from the student in case of change in marks and distribute revised mark list to the student.

Online Examinations-

During online examination if the student finds any discrepancies in the question, he/she has an option to mark that particular question as an invalid question. The committee of subject experts appointed by the University assesses the queries related to the invalid questions. If the claim is found to be correct a decision is taken by the committee to award appropriate marks to concerned students.

File Description	Document
Any additional information	View Document

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 and course outcomes of the all the programmes and courses are stated and communicated to the students through institute website and displayed at prominent places of the institute. **The process of CO framing for all courses in all programs is discussed below:**

- For every course 5 to 6 intended learning outcomes are stated as Course Outcomes (COs).
- Unit wise course contents from the course syllabus forms the basis for framing CO statements.
- CO statements address appropriate Blooms Taxonomy (BT) levels by considering proper abilities and skills to be acquired by the learners.
- The COs are mapped with POs and PSOs having correlation levels of either 1- Slight (Low), 2-Moderate (Medium) and 3- Substantial (High).
- The process of mapping of CO's with PO's and PSO's give CO-PO and CO-PSO matrices respectively.

Mechanism of Communication of Program Outcomes (POs):

Program Outcomes (POs) are communicated to the students, teachers, staff and other stakeholders through the following ways:

1. Displayed at strategic location in the departments.

- 2. Published through institute website- www.avcoe.org .
- 3. Published regularly in institute brochure, departmental magazine.
- 4. Printed on laboratory manuals, project log book, Attendance sheet, Staff Diary.
- 5. Presented during various value added courses, workshops, seminars, induction programs.
- 6. Conveyed during teaching learning process, tutor meetings, Students monthly report.
- 7. Shared to students during first lecture of new semester.

Mechanism of Communication of Course Outcomes (COs):

Course Outcomes (COs) are communicated to the students through the following ways:

- 1.COs are published through institute website- www.avcoe.org.
- 2.COs are communicated and discussed with the students during teaching learning process at the beginning of the semester and also during the progress of the semester.

COs are made available for the ready reference of the students through Course Material, hand-outs, lab manuals.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document

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

Response:

- The institute follows Outcome Based Education (OBE) philosophy for the measurement of levels of attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs).
- Program outcomes describe what students are expected to know and be able to do by the time of graduation.
- Curriculum, teaching-learning processes and assessment methodologies are designed to align with POs and PSOs.
- The COs for individual courses are framed having an appropriate mapping with POs and PSOs. The process of mapping gives CO-PO and CO-PSO matrices.
- For each course, attainment level of all course outcomes is obtained based on the student's performance in the internal and external examinations.
- This in turn helps in arriving at the PO/PSO assessment as each CO is mapped with certain POs/PSOs.
- Besides this, the exit survey is taken from students for indirect assessment of the PO's. The alumni and employer surveys are also taken for indirect assessment of the POs.
- Overall PO attainment is assessed based on direct assessment of CO's and indirect assessment of PO's.

• The assessment methodologies and the process of measuring attainment levels is summarized below.

Direct Assessment Methodologies

Direct assessment methodology have two components viz- internal assessment (20% weightage) and external assessments (80 % weightage). Internal assessments are carried out for Class Tests and Prelim examination, External assessments are carried out for in-semester, end-semester examination, oral/practical examination and term work evaluation of laboratory work.

Direct assessment Rubrics used for Course Outcomes (COs) are:

Attainment Level 1: XX% of students score more than XX% marks

Attainment Level 2: XX% of students score more than XX% marks

Attainment Level 3: XX% of students score more than XX% marks

CO attainment is calculated with 80 % weightage to external assessments and 20 % weightage to internal assessment.

CO Attainment = 0.8^* Attainment Level of External Assessment +

0.2* Attainment Level of Internal Assessment

Indirect Assessment Methodologies for Program Outcomes (POs):

Indirect assessment methodologies for PO's is carried out based on alumni feedback, exit survey and employer feedback.

Overall PO attainment is calculated with 80% weightage to direct attainment and 20 % weightage to indirect attainment.

Overall PO Attainment= 0.8 * attainment through direct assessments + 0.2 * attainment through indirect assessment.

File Description	Document	
Upload any additional information	View Document	

2.6.3 Average pass percentage of Students during last five years

Response: 92.11

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

(Data Template)					
File Descriptio	File Description		Document		
				1	
941	1030	929	997	916	
2019-20	2018-19	2017-18	2016-17	2015-16	
2.6.3.2 Number the last five ye	er of final year stude ears	ents who appeared	for the university ex	amination year-wise	during
908	915	834	929	845	
2019-20	2018-19	2017-18	2016-17	2015-16	

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process		
Response: 3.52		
File Description	Document	
Upload database of all currently enrolled students (Data Template)	View Document	

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: 143.43

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
19.500	31.251	44.889	20.890	26.900

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
Any additional information	View Document

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

Response: 4.1

3.1.2.1 Number of teachers recognized as research guides

Response: 08

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

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

Response: 51.11

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

2019-20	2018-19	2017-18	2016-17	2015-16	
2	6	4	6	5	
		I		, ,	
3.1.3.2 Numbe	r of departments of	fering academic	programes		
2019-20	2018-19	2017-18	2016-17	2015-16	
9	9	9	9	9	
File Descriptio	n		Document		
Supporting document from Funding Agency			View Document		
List of research projects and funding details		View Document			
Any additional information		View Document			
Paste link to fur	nding agency website	e <u>1</u>	View Document		

3.2 Innovation Ecosystem

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

Response:

Institute has created an opportunity for rural based graduate and post-graduate students to explore their new ideas and sharing of knowledge with other likeminded in their areas of interest. The Research and Development Cell inculcate research culture among the students and encourage for continual excellence in engineering education.

Objectives

- To identify the newer, multidisciplinary and innovative topics related to the programs.
- To motivate the faculty and student for research and to develop research culture in the Institute.
- To organize conferences, workshops, seminars and symposiums to address the development and research.
- To create the awareness about various research funding schemes of Government, university, AICTE, and other agencies
- To organize the visits to research organizations and institutes with higher repute like, DRDO, HAL, NIT, IIT, WALMI etc.
- To motivate the staff to pursue Ph.D. & Post-doctoral program.
- To create the awareness about research papers, patent, and IPR.

• To encourage the consultancy in related areas.

The new and innovative ideas are collected by the faculty by direct communication with students, local problems, seminars, mini projects, projects and themes of various competitions. These ideas then processed at department level and the most appropriate ideas are forwarded to Dean, Research and Development, where the decision about quantum of funding for such project is decided, depending upon the nature of the topic, resource persons, travelling, its practical application as well as the available and required instrumentation.

The faculty and students are guided for approaching the various funding agencies and providing necessary documents. Required instruments are purchased from the funds received from various agencies and the institute contribution. They are allowed to contact resource persons and visits to other institutions, if required. The work is then carried out by guiding the concerned for writing research papers, creating start-ups and register IPR and providing monitory assistance for the same as per regulations of the R&D cell. The teams participating in national and international conferences like Baja, TIFAN, Hakathons. All the expenses incurred are borne by institute.

Faculty members seeking higher studies are encouraged by offering study leaves for their course work. The research scholars are free to use institute resources for required experimentation and resources from the library.

With this well-defined system, the students and faculty members attend seminars and workshops, present papers, participate in competitions and exhibitions as well as IPR registrations. This leads in widening of visions of the concerned, due to exposure to outside world and studying burning issues in those areas. The final outcome of this process is, new and innovative ideas transferred to successive batches, changing mindset of their counterparts and guidance to the juniors. The faculty members and students with increased intellectual level acts as lighthouses enlightening others, resulting in overall quality enhancement, more career opportunities as well as overall growth of the institute.

File Description	Document	
Upload any additional information	View Document	
Paste link for additional information	View Document	

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

Response: 189

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
45	63	36	22	23

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years		
Response: 1.25		
3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years		
Response: 10		
3.3.1.2 Number of teachers recognized as guides during the last five years		
Response: 8		
File Description	Document	
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document	
Any additional information	View Document	
URL to the research page on HEI website	View Document	

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

Response: 2.01

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

96 48 50 94 124

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

3.3.3 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: 0.47

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
12	34	10	20	21
File Description			Document	
List books and chapters edited volumes/ books published		View Document		
Any additional information		View Document		

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:

The faculty and students of the institute are connected with society by addressing issues like, agriculture, water supply, transportation, solid waste management, social issues, power crisis and environment. The major initiatives are as follows.

• Soil Health Cards:

Students from farmer families and their neighborhood brings the soil sample to geotechnical engineering laboratory and get the report of important soil parameters required, free of cost. With this, his family gets an idea related to fertility of the soil and help for planning the crop pattern to achieve more yields thus helps in economic uplift of the society. Students also help their families in these activities, and gets practical / field experience.

• National Service Scheme (NSS)

The institute has two units of NSS (100 students per unit) and aims at 'Education and Service' to the community. Various activities are carried out under the banner of NSS like,

- 1. Clean India Green India, Swachh Sangamner Abhiyan.
- 2. Save Water Save Life, Dandakaranya Abhiyan,
- 3.Blood Donation Camp, Blood Group And Hemoglobin Checkup Camp, HIV-AIDS Awareness. Yoga Day Celebration
- 4. Save Girl Child, Woman Health Awareness Camp
- 5. Education To Rural India, Computer Literacy, Road Safety Awareness,
- 6. Energy Conservation & Awareness,

Through these programs, students get sensitized about importance of social issues of the community like segregation of wet and dry garbage, saving water, blood donation, tree plantations and energy conservation etc. They learn to act as active group leaders and members. Every year approximately 500 blood units are donated to the Govt. hospitals. For this noble cause, we have been awarded for highest blood donations in Nashik circle.

The institute contributes in "Dandakaranya Abhiyan", a mass scale tree plantation at Sangamner taluka. Nearly ten thousand saplings/ seeds are planted per year. The NSS unit has actively involved in Guinness World Recordsof saplings distribution by SPPU, Pune and received appreciation certificate.

• Unnat Maharashtra Abhiyan (UMA) and Unnat Bharat Abhiyan (UBA)

The institute is associated with UMA (one among 12 private institutes) and UBA. Various activities related to social and holistic development like, evaluation of rural water supply schemes, rejuvenation of rivers, analysis of electric feeder systems, viability analysis of MSMEs, and resolved the problems of rural areas. Few students got opportunity to work with IIT professors from CITARA program, regarding river rejuvenation issues.

• Farm structures and implements

The faculty, students and staff of the institute are engaged in the development of technological solutions like self-propelled onion harvester, potato harvester, other harvesting and planting equipment's, Amrutchulha and Amrut-bamb (water heater), Ferrocement tanks, check dam, Detachable toilets, Low cost housing, and agro-equipments.

• Renewable energy and Recycling of water

The pioneering efforts of the institute on environment and renewable energy sources, set example for other institute and cooperative institutions. Roof top solar power plant, solar water heaters to all hostels, 0.4 MLD sewage treatment plant installations creates environmental awareness among the students. MEDA awarded second prize for energy conservation and efficiency. AICTE recognized "Clean and Smart Campus". Confederation of Indian Industries awarded "Energy Efficient Unit".

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 31

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
12	05	10	2	2

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted 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: 104

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

2019-20	2018-19	2017-18	2016-17	2015-16
23	20	30	16	15

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

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

Response: 63.23

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
2914	3312	1793	1317	1496

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

3.5 Collaboration

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

Response: 207

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
54	118	30	3	2

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document
Any additional information	View Document

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

Response: 55

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
9	14	13	4	15

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

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 creates and enhances infrastructure as per the norms laid by the AICTE, DTE and SPPU and ensures that required facilities for effective teaching-learning process, co-curricular and extra-curricular activities are made available. The facilities are enriched by addressing the needs of curriculum, advanced technology and R&D activities.

The physical infrastructure consists of 42 classrooms, 18 tutorial rooms, 93 laboratories, 6 seminar halls, 3 central computing labs, 1 central library with additional library at Dronagiri and departmental libraries. Besides, the institute has supporting academic and administrative rooms for undergraduate and postgraduate programs. Classrooms and seminar halls are well furnished, ventilated and illuminated and equipped with LED projectors. Every Department has seminar hall to conduct different activities. Laboratories are well equipped and are regularly maintained and updated. The charts, models and cut-sections are displayed in laboratories for better understanding. The ICT tools and audio-video facilities further strengthens the infrastructure of the institute.

Additionally, to cater the needs to learn recent technologies, institute has established Excellence Centers like E-Yantra Robotics Centre, NVIDIA-CUDA learning center, ESDS Cloud Computing, MechaTol Project Based Learning, CISCO Networking Academy, REDHAT Academy Centre etc. Modern machineries like 3D printer, Industrial Robot, Hybrid Wind-Solar system, micro-Hardness tester, four-ball tester, FFT analyzer, Spectrum analyzer, PLCs, Digital UTM, Vector analyzer, Variable Frequency Drives and software like MATLab, Ansys, MiniTAB, Witness, NILabView, CADFECO are also added in the laboratories to facilitate advance learning and research.

The central workshop is equipped with different facilities for mechanical based practical like machine, fitting, carpentry, welding, black smithy and tin smithy shops. Advanced machine tools like CNC, Vertical Machining Centre and Coordinate Measuring Machine is procured to train the students on industrial skill sets. Workshop facility is made available for the extended hours to manufacture the vehicles for different SAE competitions, academic and innovative projects.

Institute has very good infrastructure for internet access and computing purpose having a good network of 1125 computers with 100 Mbps band width increased to 175 Mbps last year and will procure 500 Mbps from 2021-22. The institute has 03 central computing facilities which are made available for extended hours. Some computer laboratories like CAD/CAM are equipped with computers having higher configuration. Sufficient number of peripherals including printers, plotter, scanners and digital pads for online teaching are provided. The system and required application software are available in respective departments.

SackInfo, the customized ERP, is deployed for effective academic planning, reporting and monitoring. The ERP is also used for online MCQ examinations. Library functions are automated through SackInfo ERP. The library has compilation of text and reference books, general and competitive examination related

books, data books and standards, hardcopy and e-journals. A reading room in main library and at ladies hostel is made available for extended hours.

Ultra-modern Career Development Center has been established for training and placement related activities. It has separate seminar hall, GD rooms, interview cabins and HR lounge. Language Lab and 'Sakura', the Japanese language center is used for foreign language training and soft skill development.

File Description	Document	
Upload any additional information	View Document	
Paste link for additional information	View Document	

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

Response:

In order to ensure all-round development of students, institute has always encouraged and supported cocurricular and extra-curricular activities. Well established Gymkhana Department and Cultural Committee, support by student committees thereof, organizes various events and competitions at department, institute and Sanstha level (Medha). The students of 'Earn and Learn' scheme helps in operation and management of facilities.

Following Cultural, Outdoor and Indoor sports facilities are available-

Cultural activities:

Amrut kalamanch and Amphitheatre; with 1000 and 2500 seating capacity respectively, Conference halls (Dronagiri- 350 capacity and JRD Tata Hall-150 capacity) equipped with proper sound and light systems. Separate 'Mudra Club' room with required musical instruments is also available for practice. 'Sahitya Sharada' is a forum for sharing poetry and writing. Since 2016, institute is organizing 3 day cultural event "Medha" every year and more than 10000 students from AVCOE and other institutes participate enthusiastically in various types of cultural events. Students are involved in planning and management of the event and the exemplary personalities from different professions are invited to motivate and share the experience. The national days and major festivals are marked and celebrated enthusiastically.

Outdoor Games:

Two play grounds, Padmabhushan Vasantdada Patil Krida Sankul and Medha Ground, having 50420 sq.m. and 58980 sq.m. area respectively, are used for playing Cricket, Football (10x90m, 2 grounds), Kho-kho (30x15m), Volleyball (15x9m, 04 grounds), Kabbadi (10 x12.5m), handball (20x40m), net ball (15x20m) and jogging track of 500m.

Indoor games:

Badminton Hall (20.1x19.1m) with two courts, Table Tennis (3 tables), Chess, Carrom are available in the gymkhana. The Table Tennis, carom boards and chess are also provided at Amrut Kalamanch for the recreation during recess.

Gymnasium:

The gymnasium is equipped with nine station multi-gym, single stations gym equipment, highlight pulley, pecdeck, arm curling pulley and quality weight lifting. Separate gymnasium facilities and outdoor games like basketball, volleyball, badminton and lawn for performing yoga is available at Ladies Hostel.

Yoga Club:

The Institute has a 'Yoga Club' which organizes training and practicing sessions for students and staff. Few faculty members serve as instructors for Yoga Club. Institute celebrates 21 June, the international Yoga day on large scale. The lady trainer is also appointed for girl students and also teaches the art of self defense.

The sports and extra-curricular activities has been playing vital role in the overall development of the students. Students have earned applauds in the various competitions at zonal, district and university level in solo and team events. TA/DA is paid for participation in various sports and cultural events and all sport kits/ drapery are made available by institute. Owing to the availability of sports and accommodation facilities and excellent management capabilities, AVCOE is one of the preferred destination for zonal and university level games and competitions. Trekking expeditions and fort cleaning initiatives are also organized for students. 'Amrut Chashak' cricket tournament is organized every year for all employees to celebrate birthday of Sanstha President. The achievements of the students are appreciated and acknowledged by felicitating them at Sanstha and Institute level functions.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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: 90

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 45

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 19.13

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
147.87	192.25	153.72	78.36	168.95

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

The main objective of central library is to provide seamless access to information to its users in a networked environment and to become a premier learning resource centre in Engineering, Science & Technology and related areas. The library is automated using library management software 'Ananosoft ERP (V.17.1.)' Since 2012 to March 2018 and currently we are migrated to Sack Info ERP Software (V.2.5) since April 2018. The ILMS details are given below:

Sr.	Name of the	Nature of Automation	Version	Year of Automation
No	ILMS Software			
1.	Ananosoft	Partially	V.17.1	2015-2016
1.	Ananosoft	Partially	V.17.1	2016-2017

1.	Ananosoft	Partially	V.17.1	2017-2018
1.	Sack Info	Fully	V.2.5.	2018-2019
1.	Sack Info	Fully	V.2.5.	2019-2020

This software has modules like Acquisition, Cataloguing Circulation, Serial Control, Article Indexing, Administration and Statistical Data Presentation. Acquisition modules & Cataloguing Module is utilized for generating and placing order, master record keeping, graphical analysis of inventory, catalogue search through OPAC and is fully bar code enabled. The circulation module maintains the status of various items and circulation transactions. It also helps in stock verification and record. Subscriptions and checks on arrival of issues is monitored through serial control. Administrative module is used to create the users and work allotment. The software has 3-tire security system implemented. The graphical reports on various operating and usage parameters are prepared. Recently, face recognition system is integrated in the ERP system.

The library has subscribed to e-Journals and scientific databases such as IEEE, ASME, ASCE and DELNET. These journals can be accessed at Digital Library Section and through institute network. Institutional repository which contains hand written notes, lab manual, MCQ, question bank, videos of practical conduction is available online (http://103.76.10.193).

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

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: B. Any 3 of the above

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

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: 27.19

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
17.08	28.26	23.62	34.58	32.43

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

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: 4.59

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

Response: 156

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Institution has adequate IT infrastructure which is updated and upgraded continuously as per the curriculum requirements and changing technology. Wi-Fi zones are provided at various locations such as reading halls, hostels, and department corridors. The computer labs are connected through LAN with internet facilities. ICT facilities are available in all the departments. Necessary system and application software are available in all respective laboratories.

A leased line connectivity of 100 Mbps from BSNL and 75 Mbps from Tata is procured and will be enhanced to 500 Mbps from AY 2021-22. The maintenance of computer, Internet Wi-Fi networking, and installation of software and maintenance and up gradation of hardware is done on contract basis.

Institute plans the specific need and forecast the improvements in IT infrastructure, specific maintenance and ensures IT services to the users.

- 1. **Network Security:** The college campus have completely switched, high availability network. Network is secured by firewall integrated in router. Additionally, Cyberoam UTM is available with access control. Total 1500 users can be logged in simultaneously.
- 2. **Software Asset Management:** We categorize the software assets as open source software assets and proprietary software assets. The proprietary system software are purchased at Sanstha level and further distributed to different units. Application software are purchased for individual departments as per their curriculum and research requirement.
- 3. **Open-Source Resources:** To reduce the dependence on propriety software and tools, we strongly promote open-source software, tools and applications for supporting computers assisted learning, teaching, design. Currently institute supports various version of Linux operating system. Some of the open source software tools used are JDK, Star UML, Eclipse, G++, gcc, SSH, My-sql server and client, Scilab, Octave etc.

Green Computing: Institute strives hard to reduce the carbon footprint. Most of the administrative activities pertaining to faculty, staff and student are handled through the ERP. All the news feeds are displayed through LED TVs. The use of printers and printed materials is discouraged. The power reduction is managed by replacing the older and power intensive technology /devices with less power consumption devices like replacement of CRT monitors with LED monitors.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 3:1		
File Description	Document	
Upload any additional information	View Document	
Student – computer ratio	View Document	

4.3.3 Bandwidth of internet connection in the Institution

Response: A. ?50 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

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: 15.42

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
140.04	132.58	134.30	104.42	91.72

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

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 standardized and established systems and procedures for maintaining the physical, academic and support facilities and is included in ISO 9001:2015 document of the institute. Various aspects of the maintenance and utilization are taken care by concerned sections and committees. It is ensured that the facilities are created, maintained and updated to facilitate effective teaching-learning process in conducive academic ambience and overall development of the students. Appropriate annual budgetary provisions are made for maintenance of the physical facilities of the institute.

Following procedures are adopted in this regard:

Maintenance of Physical and Support Facilities:

Civil infrastructure:

General civil maintenance and upkeep of civil infrastructure is carried out by the 'Civil Maintenance Department' at Sanstha level. The maintenance of elevator is under AMC. The workshop department helps in executing minor repairs.

Electrical Maintenance:

The maintenance of generator is regularly done by AMC. Electrical maintenance is done with the help of 'electricians' appointed by institute and major work is outsourced to local skilled agencies.

Water supply:

A separate 'water supply section' takes care of storage and distribution of water. The RO plants are installed and water is distributed through coolers as well as taps. The quality of drinking water is maintained and recorded daily. Required plumbing work in the campus is done in-house.

Garden and landscape:

A 'Garden In-charge' is appointed by Sanstha. Different areas of the campus are outsourced to the different agencies. They are entrusted for maintenance of lawns, shrubs, trees and plants. Sufficient trees are planted regularly and have covered maximum area. The unique 'Bamboo Tunnel' at the entrance of campus is taken care by Sanstha.

Housekeeping:

The house keeping is outsourced to external agency by awarding annual contract including the sanitary materials and takes care of cleaning of all the utilities.

Gymkhana:

The equipment and sport material are maintained by trained attendant. Any major work is carried out by external agency. Students and staff are availing the facility in the early morning hours and evening sessions.

Maintenance of Records and documents:

The documents pertaining to student section, accounts and administrative importance are preserved by stacking them properly in a separate room. Other documents and stationery are preserved for five years and then shredded and disposed.

Maintenance of Academic Facilities:

Lab Equipment and Machineries:

Repair and maintenance of laboratory equipment, instruments, kits and machinery are initiated by the respective Laboratory In-charge and Technical Assistant (TA) as and when required. The routine maintenance is carried out by TA and history cards of the equipment are maintained. In case of repair and

overhaul, HOD and Laboratory In-charge handles the request and maintenance is completed by respective external equipment experts. The calibration of measuring instruments is done periodically. Laboratory in charge and TA ensures proper working of all equipment and machineries.

Based on the recommendations of Lab In charge, the committee appointed inspects the working condition of the equipment and approves 'written-off'.

The laboratories are utilized as per the time-table for demonstration and conduction of practical. Lab facilities are also made available to students and staff for research and allied work as per the request.

Computer and peripherals:

The institute has adequate number of computers with internet connections and required software is distributed to respective office, laboratories, library, departments etc. Department computer labs and central computing facilities are connected through proper networking and internet access. The computing facilities are utilized for academic, training, value added courses, research and allied usage as per time-table, special requirements and beyond working hours as well. 'Computer Maintenance Department' (CMD) is established which is headed by senior professor and supported by System Administrator and TA. The routine repair, maintenance and updation of computers and peripheral are taken care by CMD. The LAN is administered and maintained by a dedicated 'Internet and Networking' in-charge. The system and application software are upgraded from time to time. Renewed Anti-virus software is purchased for identified computers. Sackinfo ERP system customization, upgradition and maintenance is done by the vendor under AMC. The working of UPS is inspected monthly by experts of internal team and maintained through AMC. CCTV surveillance system installation, maintenance and upgradation is outsourced to external agency and is done as and when required. EPABX system is covered under AMC.

Classrooms:

Housekeeping of classrooms and surrounding area is outsourced to external agency while laboratories and important utilities are taken care by internal staff. The regular maintenance of ICT tools are looked after by TA. Repair work of class room and laboratory furniture is done internally.

Library:

The up keeping of the books and periodicals is done by library assistants. The book binding and other related work is outsourced. The library provides reprographic facilities and are maintained and repaired by external agency as per requirement. The library timings are 9:00am to 5:00pm on working days while reading room is kept open for extended hours and even holidays on students' request.

Website:

A team of faculty members is appointed for updating the information on regular basis. The website and digital media maintenance is covered under AMC.

Maintenance of Other Facilities:

Maintenance of Special Projects:

The operation and maintenance of Solar Power Plant, Solar Water Heaters, Sewage Treatment Plant (STP) and Biogas Plant is taken care by internal team of staff members. Separate persons are appointed for operational work of the plants. AMC is awarded to external agency.

Safety and security:

Emergency exits and firefighting system are provided to counter situations like fire hazard and natural calamities. Fire extinguishers are provided in laboratories and strategic locations. The fire extinguishers are refilled timely and maintenance card is introduced to keep the track. The security persons and TA have been trained to handle the fire hazards.

Vehicles and transportation:

A fleet of vehicles like ambulance, tractor, pick-up, jeeps, cars and busses is looked after by Sanstha Office. Transport in-charge and his team take care of maintenance and repair. Transportation facility is provided to students commuting from nearby places and to the staff for official work. The ambulance is available on 24X7 basis.

File Description	Document	
Upload any additional information	View Document	
Paste link for additional information	View Document	

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 80.5

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
2749	2904	2749	2721	2836

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

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: 1.51

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
111	56	52	34	0

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	View Document

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)	View Document
Any additional information	View Document
Link to Institutional website	View Document

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: 12.19

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
455	574	432	406	227

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

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	View Document		
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document		
Details of student grievances including sexual harassment and ragging cases	View Document		

5.2 Student Progression

sponse: 40.4	1			
2.1.1 Numbe	r of outgoing stude	nts placed year - v	vise during the last fiv	ve years.
2019-20	2018-19	2017-18	2016-17	2015-16
456	578	415	359	212
ilo Doscrintio	n		Document	

Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

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

Response: 16.85

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

Response: 169

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

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

Response: 46.9

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
17	17	35	39	11

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
34	32	70	83	32

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

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: 182

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
17	29	19	74	43

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	<u>View Document</u>
e-copies of award letters and certificates	View Document
Any additional information	View Document

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

Response:

The aim of promoting students representation and engagement in various administrative, co-curricular and extracurricular activities is to involve the students in policy making process as well as maintaining the transparency in the system. It helps in comprehensive development of the students. Various committees are formed at institute/department level and majority of them are given below.

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

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

3. Gender Equality: The broad mandate of the cell is to provide an integrated and interdisciplinary approach to understanding social and cultural constructions of gender that shape the experiences of women and men in society.

4. Equal Opportunity : To oversee the effective implementation of policies and programmes for disadvantaged groups, to provide guidance and counselling with respect to academic, financial, social and other matters and to enhance the diversity within the campus.

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

6. Cultural Activities: This committee co-ordinates various cultural activities and events throughout the year. "MEDHA", a, mega cultural event of our sanstha provides platform to the students to organise and participate activities through various event committees under Medha.

7. Sports Activities: This Committee organizes interdepartmental sports event. Our students actively participate in various sports in intercollegiate, interuniversity, state, national and International level.

8. Department/ College Magazine: 'Medha' is our annual magazine published by Magazine committee at college level. Students express their talent in the form of articles, poetry, interviews of eminent personalities etc. Each department publish their own magazine where student committees play active roles in magazine publishing process.

9. Extension Activities: The students are involved in all extension activities such as NSS, Blood donation Camp, Swachcha Bharat Abhiyan, Yoga day, Tree plantation camps, Marathi Bhasa Sanvardhan, Flood Donation, Jayanti Mohatsav.

10. Department Students Associations: In each department of the institute "students associations" are formed. They are "association of the students, by the students, for the students". The curricular and extracurricular activities are carried out under students associations.

11. Internal Quality Assurance Cell (IQAC): The student representative is involved in IQAC. The student representative can present his/her ideas and put up suggestions in regular meeting of IQAC. Thus, he/she is also active member in policy making process of IQAC.

12. Department Advisory Committee (DAC): In each department DAC plays important role in improving quality of overall teaching learning process. This committee involves student representative along with industry and academic experts. The student representative can present his/her ideas and expectations during regular meeting of DAC.

13. Professional Chapter Committee: Professional chapters like IETE, CSI, IEI, IEEE, ISTE, ISHARE are established in each department. Students committees are formed to organize the chapter activities, throughout the year including planning and implementations

File Description	Document
Upload any additional information	View Document

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: 18.8

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution

2019-20 2018-19 2017-18 2016-17 2015-16 23 21 14 13 23 Document **File Description** Upload any additional information View Document Report of the event **View Document** Number of sports and cultural events/competitions View Document in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)

5.4 Alumni Engagement

participated year-wise during last five years

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:

- We are very proud to share that our alumini are occupied various positions like vice presidents, CEO's, Entrepreneurs, plant heads at various MNC's, Public sector and Government organizations at global, national level and state level.
- To strength the alumini network, the institute registered an Alumni Association during the year 1994 with registration number is MH/788/04/Ahmednagar. The purpose of the association is to bring together all the alumni in single platform, to share their experiences, to extend support and provide guidance to the institution.
- Apart of this, the alumni have formed group at various locations including USA, Delhi, and Pune etc. The special alma-shine portal is designed for alumni registrations. At present active alumni strength is 6333 out of more than 10000 graduates.
- The institute organize "MILAP" alumini meet every year. On an average of 400 to 500 alumini participate in the event. During the meet they interact with the students, faculties, management and share their ideas for improvement of overall progress of the institute.
- Apart of the regular event, the alumini visit the department to provide guidance through guest lectures, seminars, workshops and, supports for industry visits, internships, and placement drives etc. throughout the academic year.
- Alumni provide feedback on infrastructure development and other academic related matters of the college and suggest gaps in syllabus considering current demands of industry.
- The alumini of the institute supports the students for financial help during their project work, or any competitions. Also they provide infrastructure facilities at their own end wherever the technological need arises.
- Alumni voluntarily involve in mentorship for current first year and second year students of institute

through **Buddy scheme a unique feature**. In this each alumini connect with the individual students. Alumini interact with students through phone, email, and social media. Alumini guide the students for academics, skill development, psychological development and career development.

• He inspires and motivates the student to infuse confidence level by quoting his journey, deep career to achieve the excellence. In this scheme the alumini supports till he graduates with career prospects.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	View Document

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 were incarnated by the then Principal AVCOE, Sangamner along with all staff member in 1999.

Following things were considered while preparation of the Institute Vision and Mission Statement.

- Socioeconomical Condition and Low level of literacy rate/technical skill in the rural area.
- Need for upliftment to improve living standards in deprived rural panorama.
- Deliberation with board of trustees in presence of Academic and Industrial experts.
- Inputs from other stakeholders



• Vision of Institute

To create opportunities for rural students to become able engineers and technocrats through continual excellence in Engineering Education.

• Mission of institute

Our mission is to create self-disciplined, physically fit, mentally robust, and morally strong engineers and

technocrats with high degree of integrity and sense of purpose who are capable to meet challenges of ever advancing technology for the benefit of mankind and nature.

We the management, the faculty, and staff therefore promise to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.

• Nature of Governance

The top management including Board of Trustees, Governing Council, College Development Committee, Academic Advisory Board, Chief Executive, and Manager of the Sanstha, Principal, Department Advisory Board, and faculty focus on institutional goals as follows -

- Top management directs Principal focusing on vision and mission of the institution.
- The Principal consistently follows top management policies to achieve the vision with the support of staff.
- Principal, Vice Principal, IQAC Director, Deans, Registrar and Head of Departments come together to form different committees to provide "decentralized administration" to achieve institution's objectives and goals put forth.
- The institution is committed to follow quality framework defined by ISO 9001:2015 with the support of IQAC.
- Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan:

The institution plans well in advance through all departments including:

Academic Planning: Semester wise academic calendar which includes all curricular, cocurricular, extracurricular activities by following University academic calendar.

Financial Planning: Budget required in academic year as per perspective plan.

It includes purchase of resources, software as per new syllabus or faculty recruitment in case of increase in intake. It includes fulfillment of resources (man, machine, software etc.) as per new syllabus and increase in intake.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:
Decentralization- ISO, etc.

Participative Management:-Involvement of stakeholders (GC, CDC, AAB (Academic advisory board), IQAC, DAB (Department Advisory board), DMC (Department monitoring Committee), Department association, student council etc.)

College promotes culture of participative management. Therefore, the committees are set up to execute predefined strategies that emphasize active stakeholder involvement as mentioned below,

- Top Management Level
- Governing Council
- CDC
- AAB
- Principal's Administration
- Vice Principal, Dean academics, Dean R&D
- IQAC
- HoDs Level/ In-charge / Coordinator Level
- Faculty Level
- Students Council
- Students Association
- Cultural and sport and other activities

Top Management Level:

• (Governing Council, Chief Executive and Manager of the Sanstha, CDC, Academic advisory board,) provide directions and guidelines focusing vision and mission of the institution.

Principal's Administration:

This is the key node that provides effective administration by handling academic and all college level administration.

In-charge / Coordinator Level:

They can take necessary action for overall controlling and monitoring of their corresponding committee / cell.

- Top Management
- Principal's Administration
- In-charges / Committee Coordinators
- H.O.D
- Faculty
- Students Associations
- Vice Principal, IQAC, Dean, Registrar



Head of the department (HoD) Level:

HoDs have enough freedom to plan for overall progress of department. They can take necessary action for overall controlling and monitoring of department.

Faculty level:

The departmental advisory committees are formed in every department. Class teachers have sufficient authorities to suggest and implement variety of technical and non-technical programs, Workshops, seminars of student interest, Alumni Interactions, hands on practices, Industrial Projects, implant trainings, industrial trainings etc.. Faculty by their choice can take initiative and organize seminars, workshops.

File Description	Document	
Upload any additional information	View Document	
Paste link for additional information	View Document	

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Perspective Plan 2009 -2019

1. External Environment

- 2. UG Environment
- 3. PG Education and Research.

(a) **Goal**: To develop and sustain nationally recognized engineering research and PG Programs and PhD centre.

• Strategies and Tasks :

Strategy 1. Advance research and scholarly enterprise:

Strategy 2: Initiate research culture in AVCOE UG students:

- Introduce PhD course in Civil Engineering by 2019.
- Provide opportunities for UG research experience by organizing National and International Technical Events.

The department of Civil Engineering has started with Under Graduate Program with an intake of 60 in the year 1983, which helped to cater the need of technical education in the rural area. The department is having good number of Qualified and Experienced faculty members (05 PhD) and well trained supporting staff.

On the basis of successful execution of UG program, In the year 2010, the Savitribai Phule Pune University (SPPU) Pune and AICTE have granted the permission to start the Post Graduate Program (Centre) in Civil Engineering with specialization of Structural Engineering.

With good and sound track record of Academics of UG and PG programs, the department was having the vision to start PhD Research Centre in Civil Engg. as part of Progressive Growth of the Department. The starting of new PhD Centre was included as part of PG Education and Research strategy in the Perspective Plan (2009-2019). Accordingly, the agenda for the same was kept and finalized in the meetings of Academic Advisory Board and Governing Council.

It was proposed that we will be able to start this research center in academic year 2019-2020. In this regard, the proposal and detailed report was submitted to SPPU, Pune in the month of September 2019. Accordingly, to start new PhD Centre all the necessary provisions (infrastructure, laboratory and equipment and research facilities like Horizontal and Vertical Shake Table, etc.) were made available. Upholding our proposal, University appointed Local Inquiry Committee for this program (Ref: No, CA/LIC/19/AN/ENG/2 Dated:24/12/2019). The Committee visited to the institute on 21/01/2020 and after visit, submitted LIC report to University on 23/01/2020.

Based on the LIC recommendations, the University has granted the Permission to Start PhD Research Center (Civil Engineering) in the institute from Academic Year 2020-21 vide letter no, Ref: No, CA/236 Dated:05/03/2020. Two internal faculty members are associated with research centre as a PhD Supervisor (Guide). Two faculty members have completed their PhD and will be joining the research center in near future while two more faculty members are on the verge of PhD completion. This will strengthen the research center and get edge over the contemporary research centers nearby. The admission process has completed in Month of Nov 2020 and 04 number of research scholars have joined research center as per SPPU PhD Admission Process Guidelines (The admission process was delayed due to COVID-19 Pandemic).

Since 5 March 2020, the department is running successfully PhD Research Centre with the Aim of "In Pursuit of excellence in the field of research and development in civil engineering".

File Description	Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

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 organization has a well-structured administrative setup with Governing Council as the highest decision making body followed by CDC and AAB, 53 other functional bodies and committees.

Service rules, Procedures, Recruitment and Promotional Policies:

The Institute has a set of well-established rules, policies and regulations within the frame work of, AICTE, State Govt. and the affiliating university, which are approved by the Governing Council of, the Institute. The rules and regulations of the institute were first published in Nov 1997 and are, revised periodically. The following documents are published and are made available in the institute, library and in all departments to create awareness among the employees and students. The same is, also available in the college website – avcoe.org. The copies of the institute, Administrative Manual containing service rules, Procedures, Recruitment and Promotion Policies are circulated among all the staff (both Teaching and Nonteaching) for their information.

The following are the few manuals in which all the functional aspects of day to day activities are provided:



Upload any additional information	View Document	
Link to Organogram of the Institution webpage	View Document	
Paste link for additional information	View Document	

6.2.3 Implementation of e-governance in areas of operation			
 Administration Finance and Accounts Student Admission and Support Examination 			
Response: A. All of the above	Response: A. All of the above		
File Description	Document		
Screen shots of user interfaces	View Document		
ERP (Enterprise Resource Planning) Document	View Document		
Details of implementation of e-governance in areas of operation, Administration etc	View Document		

6.3 Faculty Empowerment Strategies

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

Response:

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

All the staff that is eligible as per the Staffs' Provident Fund legislation shall be enrolled as members. The College contributes Rs. 1800 per person per month, towards the Employer's contribution to the EPF Scheme and Rs. 1800 is paid from the salary of the individual staff every month, towards his/her contribution to the Employer's contribution to the EPF Scheme. The College remits both the contributions stated above to the EPF Scheme authorities. Institute provides gratuity scheme. Group Medical Insurance is provided for teaching and non-teaching staff. All the benefits at superannuation are extended to all staff members.

The faculty members are eligible for availing Casual Leave of 12 days per year. Summer and Winter Vacations of 70 days are sanctioned for teaching and Non-teaching faculty as per university directives. Medical Leave is for 10 days per year for approved faculty and for adhoc faculty members 9 days of special leaves are sanctioned. Six months maternity leave is available to the women employees. The institute allows faculties to go for higher studies and short term courses. On duty facility and training and travel grants for attending workshops /conferences/seminars. For teaching staff, financial support is provided for attending conferences, workshops and seminars. For non-teaching staff, financial support is provided to pursue skill development. Also fees reimbursement policy is in place for Swayam, NPTEL and NITTT courses.

Institute provides residential facility for the staff members.

Institute constituted **Amrut Madatnidhi** for staff in case of medical emergency with maximum help amount extended upto Rs.50,000/-. In case of any emergency, personal loan is also provided to the staff through staff credit society. For other official purpose, institute provides vehicle facility to the staff concerned.

Tuition fees collected in Equal Monthly Installments (EMI) for wards of the staff. Institute provides uniforms to peons, class IV staff, drivers and workshop instructors. Uniform is being provided for security personals with all required accessories. Medical facility on campus, ambulance in case of emergency is also being provided for all staff.

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: 16.87

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
47	33	45	22	25

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

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: 10

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 20	2018-19	2017-18	2016-17	2015-16
9 12	12	14	8	7

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

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: 39.34

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
136	64	83	69	47

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

The Institute follows a systematic Performance Appraisal System for teaching and non-teaching staff.

The institution / management evaluates teachers based on teaching, research and participation in development activities and due importance is given to all the activities.

The institution evaluates non-teaching staff based on performance in technical support and administration related activities, co-curricular, professional, development related activities, academic contributions, general conduct and qualities.

A structured "Self-Appraisal Form" is made use of by each faculty member for this purpose, wherein he/she gives the details of his/her performance and participation in all the activities assigned to him/her by the department /college.

The concerned HOD gives their remarks on the performance of the faculty member. The faculty

performance appraisal system is evaluated in six categories namely teaching learning, co-curricular activities, research activities, academic performance- evaluated from the feedback from students, expert review feedback and management feedback.

Additionally Increment form based on API (Academic Performance Index) is introduced for awarding annual increments. The minimum requirement is 75% score. The management evaluates the faculty members and staff by merit rating based on their performance during the period of evaluation. They are recognized and awarded for academic performances, research proposals, consultancy, patents and publications, results, project guidance's, peer reviewed publications, funded research, patents developed, recognition by professional bodies and contribution towards achieving institutional goals. In case of non – teaching staff, increment is released based on their performance in the department, their urge to learn new technologies, interpersonal behavior and punctuality towards the work done in department and institute. The above methodology of merit rating has helped the institution to identify and reward meritorious employees and to positively motivate them.

File Description	Document	
Upload any additional information	View Document	

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Institution conducts internal and external financial audits regularly

At the beginning of every financial year, every department submits budget requirements to the institute. Department heads asks to laboratory in-charges for the modifications or procurement of new equipment. Head of the departments prepares budget reports, based on information provided by various lab in-charges and submit it to the institute.

Budget is proposed by Principal in Governing Council and College Development Committee, and is approved by them. Looking at the syllabus revisions and requirements thereof additional procurement is suggested if any. At the end of every financial year, it is observed, whether the allocated budget is properly utilized or not.

For above procedure, the institution is having qualified practicing Charted Accountant as internal and external auditors who audit the accounts annually. After the audit, the report is sent to the management for review. The auditors are appointed by the board of trustees in the trust board meeting.

In addition to this, the institution is having consultants to give opinion on taxation and legal issues. The college is filing income tax return every year within the stipulated time. The institution is ISO 9001 - 2015 certified, hence all framed procedures are externally audited regularly.

Internal Audit- It is conducted quarterly in a year by the audit department of the parent institution, Hase and Firm, Nasik

External Audit- In the second stage, the audit is carried out by M/S. Rajendra Gundecha & Company C.A., Ahmednagar.

Internal/External Audit	Last Audit date	Details of Compliance	
Auditors:	26/11/2020	There is no adverse remark on the ad	ccoun
		the institution	
Rajendra M. Gundecha & Company, Sangamner			
File Description	Document		
Paste link for additional information	View Document		

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

Response: 0

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
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non- government bodies, individuals, Philanthropers during the last five years	View Document
Any additional information	View Document

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

Response:

Budget allocation is done as per following-

- 1.80% of total expected income is allocated for staff salary
- 2.20% of total expected income is budgeted in following proportion
 - 1. Library 5%
 - 2. Infrastructure built up -10%
 - 3. Laboratory equipment 25%
 - 4. Laboratory Consumables 5%
 - 5. Maintenance and Spares -30%
 - 6. Research and Dev. -3%
 - 7. Travel and Training -2%
 - 8. Miscellaneous-10%
 - 9. Others 10%
- 3. Irrespective of the expenditure against each head for that financial year, the Institute allocates budgetary provisions as per the percentage decided. Unutilized funds may be used for other heads or can be forwarded to the next financial year.
- 4. The funds are allocated for planned and unplanned activities, infrastructural and lab equipment to fulfill the requirements as per revised curriculum. Budgetary controls are exercised by Principal and accounts.
- 5. Special considerations are made to accommodate unforeseen requirements. There has been no budget crunch that has affected the teaching learning process and effective functioning of the institute.
- 6. Funds allocated are intimated to department heads and respective section in-charges. The major institute level work such as infrastructural development/ upgradation including civil and support infra, common utilities, housekeeping etc. are taken care by Sanstha Office.
- 7. The procurement procedure for lab consumables, equipment, upgradation is initiated by purchase section in consultation with departments.
- 8. Budget is prepared in March whereas the syllabus revision, Admissions and fees allocation is done in June/ July. So there may be some deviation in utilization and budgeted amount.

It is ensured that the staff salary, upgradation and maintenance, infrastructure buildup and academic activities are upheld and improved for the benefit of all the stakeholders.

File Description	Document
Upload any additional information	View Document

6.5 Internal Quality Assurance System

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

Response:

The IQAC has made significant contributions for framing and implementation of the quality assurance strategies and processes. The IQAC and its constituent ISO cell undertakes various quality assurance

initiatives.

IQAC conducts academic audit covering all the important aspects of teaching-learning process. A separate audit to assess quality of course file contents of individual faculty. Continuous improvement is achieved through periodic audits and satisfying statutory requirements. The recommendations and guidelines provided by the GC, AAB and CDC are implemented effectively in coordination with the IQAC.

The quality assurance strategies and processes incorporated by IQAC and it's constituent ISO cell are briefly tabulated here.

Table 6.1 - Process flow IQAC

Sr. No.	Activity	Responsibility	Output (Method of Dissemin
01	Principal appoints IQAC Coordinator	Principal.	IQAC Coordinator is appointed
02	IQAC Coordinator draft a notice in consultation with principal for formation of IQAC committee members from each department	Principal f IQAC Coordinator	IQAC committee is formed.
03	Meeting of IQAC Coordinator with committee members is scheduled once in a semester	Principal I IQAC Coordinator	Academic monitoring is so beginning and end of semester
04	IQAC academic monitoring as per the schedule, review of learning outcomes proposes suggestions and action plan.	IQAC committee ,members. HOD and concerned staff	 Assessment of course file is each course covering follow course file. Appropriateness of teach Usage of innovative pertechniques by the facul Quality of class notes Quality of handouts/pression of question between the course file.
05	Report is submitted by committee members to IQAC Coordinator.	IQAC Coordinator. IQAC committee members	Review of report submitted members is taken.
06	Consolidated report prepared by the IQAC Coordinator is submitted to Principal	Principal	Overview is taken by Prin academic monitoring. Con initiated thereupon to bring im

Table 6.2 - Process flow ISO Cell (a constituent of IQAC) Sr. No. Activity Responsibility Output (Method of Dissemination) 01 Principal appoints ISO Coordinator inPrincipal. consultation with QAC cordinator ISO Coordinator and all process prepares and distributes academic pro- ISO Coordinator of reach department formation of ISO committee members (departmental ISO Coordinators) from ISO Coordinator each department ISO Coordinator for each department 03 ISO Coordinator prepares academicISO Coordinator audit schedule Audit schedule is prepared and releas audit schedule 04 Conduction of academic audit (Internal/Auditors / External) Academic audit are performed co / External) 150 Submission of audit reports ISO Coordinator. ISO Coordinator. Audit reports are prepared and subn ISO committee 05 Submission of audit reports ISO Coordinator. ISO Coordinator. Audit reports are prepared and subn ISO committee					
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process owners.			members	findings to Principal. Correct conformities (if any) are initia	tive anted b
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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:

Teaching-learning processes, methodologies and learning outcomes are periodically reviewed by the IQAC. The effectiveness of the implementation of these initiatives is monitored periodically by conducting academic audits.

Various reforms and quality initiatives undertaken post first cycle of accreditation and during the last five years by IQAC are elaborated:

1. Enhancement in the usage of innovative pedagogy techniques

The IQAC and ISO cell encourage faculty to increase the usage of innovative pedagogy techniques. It is made mandatory for the faculty to include their strategy for adopting innovative pedagogy techniques in their teaching plans. The faculty has adopted innovative pedagogy techniques such as LMS, online quizzes, practical videos, hands-on practices, learning through fun games, etc. during the teaching-learning process and also in department associations' activities. The IQAC and ISO cell ensure effective usage of innovative pedagogy techniques during periodic academic audits.

2. Enhancement in the usage of ICT tools

The IQAC periodically takes the review of ICT tools usage by the faculty and also ensures the adequacy of ICT infrastructure for the teaching-learning process. During the last five years ICT enabled facilities are strengthened with total 44 numbers of classrooms and 06 seminar halls are equipped with ICT tools. Smartboard installed in Sakura-Japanese learning centre.

3. Implementation of Outcome Based Education (OBE), periodic review of learning outcomes/ course outcomes and their attainments

IQAC has contributed significantly to the implementation of OBE. IQAC monitors and undertakes periodic review of program outcomes, course outcomes and their attainments. The faculty revises intended course outcomes as per the revisions in the curriculum and also with respect to the broad context of technological changes in the respective subject domains.

4. Strengthening of the ERP system

IQAC has proactively played its role in continuously updating the features and modules in the institute ERP system. ERP system is used effectively for monitoring student performance in the internal examinations, student's attendance, syllabus coverage and student feedback on various curricular aspects. IQAC was instrumental in introducing MCQ exam module in the ERP system which is being used by the faculty to conduct MCQ based exams. Improvements are made in the institute library module, and a store module has been newly added to the ERP system. The process of generating letters to be sent to the parents / academic progress reports of the students has been automated through the ERP system.

5. Adopting a revised ISO 9001-2015 Quality Management System (QMS)

The ISO cell which works as a constituent of IQAC has adopted a revised ISO 9001-2015 Quality Management System (QMS) and an internationally recognized agency TUV-SUD is appointed as an ISO certification body. Academic process manuals have been revised significantly to strengthen the quality management system to fulfil the quality objectives.

6. The Institute always believes in continual improvement and strive to get a quality assessment by various agencies. To testimony this, Institute programs are accredited three times by the National Board of Accreditation (NBA), New Delhi and have applied for the next cycle of accreditation in 2020.

With reference to the previous NAAC gradation report, there was a scope of improvements in the area of Research and Development, Governance and distinctiveness. Institute has taken the cognizance and the following are some of the measures taken:

- Institute has fulfilled AICTE norms for faculty by appointing faculties with PG qualification. To improve the number of PhD faculty, management supported and implemented the policy for study leaves and other facilities as suggested by IQAC.
- A separate R&D cell has been established to focus research activities by involving students and staff. It has set procedures and norms for publishing papers, IPR policy, new initiatives of NISP and entrepreneurship.
- The staff and students are also contributing to local area development through various interventions like agricultural equipment development such as onion harvester, potato harvester, shednet management, soil health card, rural water supply schemes and rejuvenation of water bodies under UMA etc.
- A new concept of Visionary Learning Community of India (VLCI) in association with Anand Group of industries is initiated with the objective of creating future manufacturing engineers with required skill sets. The local industries like sugar factory, dairy, local small scale industries are connected to extend the implementation of learning through VLCI.
- A strong alumni network is established through the Almashine portal where 6333 alumni are actively connected. Alumni are involved in buddy scheme, Amrut-Expo, guest lectures, sponsored projects, project guidance, placement guidance and alumni interactions etc.
- Placement improvements: A separate Career Development Cell (CDC) at par with corporate infrastructure is established. The CDC organizes industrial visits, internship, sponsored projects, various skill development programs and company-specific training for 360-degree development of students. This has enhanced the placement percentage and entrepreneurship over the period of the last five years.
- Due to the increased placement and academic excellence, the meritorious students are attracted and joining the institute which is reflected in an increase in the number of Amrut Meritorious Scholarship holders.

Overall qualitative measures taken by the institute has resulted in getting Best College Award (Rural-Professional) 2020 by the affiliating university (SPPU, Pune) on the occasion of University Foundation Day.

File Description	Document
Upload any additional information	View Document

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 intitiatives 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	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document

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:

The institute has culture of equal opportunity for all cadres and genders. It is reflected during academic, administration and other activities. Though Gender equality cell was established in the institute on 11/9/2018 as per AICTE directives, the institute was observing the practices.

Gender equality and sensitization in co-curricular:

The following gender equality promotion program organized by the institute:

Group discussion

Debate competition

Poster competition

Facilities for women in campus:

1. Safety and security: The campus is under CCTV surveillance including hostels. The securities are deployed at strategic locations and are provided with walky-talky for quick communication. The staff and students are allowed to enter premises with color coded identity cards to recognize easily. Exclusive parking zone is provided for girls and lady staff as a safety measure. The students staying in hostels has to follow all the strict rules and regulations like biometric/face reader attendance, in time to hostel, rectors and clerks appointed for monitoring their presence for their safety. In campus, a lady doctor service is provided for health issue with ambulance service. As a general safety feature fire extinguishers are strategically placed in the campus. A separate anti-ragging cell and anti-ragging squad is actively monitoring ragging issue, if any.

2. Counseling: The department has tutor scheme where in a batch of 20 student is allocated to each faculty for monitoring any issue like personal, psychological, difficulties in academics. It is conducted regularly at departmental level to help them. Separate sessions are conducted for girl's students by lady motivational speakers. A unique buddy scheme for students is initiated to inspire and guide by senior alumni. A separate lady trainer is appointed for physical fitness activities (yoga, self-defense, zoomba dance classes etc.). Over and above a qualified professional counselor is appointed for counseling session, and available in the campus as per the appointment schedule.

3. Common Rooms: In the institute, separate boys and girls common rooms are provided at various locations during the leisure and lunch hours. Facilities like drinking water, mirror, wash basin etc. are provided. A unique ladies common room for girls is furnished with two beds, first aid kit with emergency tablets and water cooler with hot water provision, dressing table, etc.

4. Day Care Centre for young children: Sanstha's sister concern school, in close proximity, is extending the support to provide day care facility to our faculty's children. Many of the faculties have availed facility as per the need. In the center, toys and proper security measures are provided. The maid servant is also available.

5. Any other relevant information/Other initiatives by institutes: Every year women's day is celebrated and motivational talks by eminent lady speakers are arranged. The unique feature of girl's hostel includes separate study room; computing facility, gymnasiums, outdoor games, cafeteria, separate shopping complex etc. are provided. Blood group and hemoglobin checkup camp, advice by dietician, guest lectures on Health awareness is arranged for girls and lady staff. Different committees including Internal Complaints Committee, woman empowerment cell are functional in the institute.

File Description	Document
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	<u>View Document</u>
Link for annual gender sensitization action plan	View Document

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

File Description	Document
Any other relevant information	View Document
Any other relevant information	View Document

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 has established procedures for waste management. Reduce, Reuse and Recycle policy is emphasized to promote energy conservation, to maintain green and clean campus. Following procedures are adopted for various types of waste management:

Solid waste management

Waste like plastic, papers etc. are collected and sold out to scrap vendor from time to time. One side printed papers are reused for daily academic and administrative purposes. The paper waste (news-papers, examination answer sheets, files and journals) are shredded and sold to Maharashtra Paper agency for recycling. Daily garbage and biomass are collected by housekeeping personnel and is disposed in a compost pit. The food waste from canteen is separated as dry and wet garbage in separate waste containers and used for biogas plant. Metal scrap is sold out in auction. The old jobs are reworked and reused for student practical.

Liquid waste management / Waste recycling system:

All waste water lines from toilets, bathrooms, kitchens etc. are connected to the septic tank. Waste water generated from Amrutvahini Campus which includes sewage from the main buildings, boy's hostels, girl's hostel etc. It needs treatment before discharging it as effluent into natural stream/river etc. and same treated waste water can be utilized for various purposes like gardening and irrigation. To treat waste water, 3E (Eco-friendly, Economical, and Efficient) microbial culture technology is adopted by the institute.

The Sewage Treatment Plant (STP) is developed with capacity of 0.4MLD and Installation cost is Rs. 27.94 Lakhs. The STP improved the overall environmental health of campus.

Biomedical waste management: It is not generated in the institute.

E-waste management

- The Institute categorization of e-waste based on hazardous and nonhazardous substances.
- Institute implemented various strategies of E-waste management in campus such as reduce, reuse and recycle in coordination with various agencies.
- The major E-waste includes desktop computers; UPSs, laptops, LCD and TFT monitors, and stabilizers are the most widely generated and stored properly.
- Reuse of components in mini projects and hobby projects of students, and displayed in corridors and laboratories for demonstration.
- The e- wastes like computers, keyboards mouse's etc. are collected and are disposed to the scrap dealer based upon the highest bidding.
- Students from Computer Engineering Bagged second prize of Rs. 1 Lakh for E-Waste management toolkit (e_ Collectify) from SPPU, Pune.

Hazardous chemicals and radioactive waste management:

The chemicals used in chemistry lab and environmental lab are diluted and disposed in sand pits. We are not using any radioactive materials.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document

7.1.4 Water conservation facilities available in the Institution:		
 Rain water harvesting Borewell /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribut Response: A. Any 4 or all of the above 	ition system in the campus	
File Description	Document	
Any other relevant information	View Document	
Link for any other relevant information	View Document	

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	View Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

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: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

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: B. 3 of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

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 believes in cultural diversity and cultural tolerance as a key to social harmony. Cultural diversity focuses on aspects like:

Tolerance and harmony towards cultural and communal diversities:

• Independence Day, Republic day are celebrated every year with grand auspicious function and faculty, staff, students attend it. Constitutions Day, National Voters Day, Road Safety Education

Program, Reading Inspiration Day, Environmental Day are celebrated.

- The cultural programs are conducted on Independence Day and Republic day depicting the acts and programs national integration and harmony by students participates.
- To ensure religious harmony among students, major religious festivals are celebrated in the premises. Showing religious harmony, various activities like elocution competition, birth anniversaries of social reformers are organized.
- The minority cell, OBC cell and SC/ST committee are organizing meetings to ensure harmony among students.

• Tolerance and harmony towards regional, linguistic diversities:

The institute maintains and always supports for holistic culture in the campus. The institute has been established in 1983 and most of the Non-Maharashtra students also took admission and successfully completed graduation. These alumni proudly share good compliments during alumni meet and in social media updates.

- The institute has residential facility in campus with hostels that made the students culture allinclusive and supportive to each other.
- Every year Basantpanchami is celebrated in campus.
- At present, the students from Jammu and Kashmir are admitted under PMSSS quota and they are comfortably accommodated in the campus.
- Currently, majority of faculties are from Maharashtra-Ahmednagar district and from other districts. It creates well comprehensive culture among the faculties.
- Few faculties are from Bihar, Jharkhand, Orissa residing in college staff quarters.
- Marathi Language Day, Half Monthly activities are conducted in the institute.

Tolerance and harmony towards socioeconomic diversities:

- The Earn and Learn Scheme is effectively implemented for Economically Backward Class students in which apart from University contribution, institute is also contributing for the students.
- The institute implements the Government schemes like Tuition Fee Waiver Scheme (TFWS), EBC and SEBC scholarship, Panjabrao Deshmukh Scheme for accommodation.
- The institute introduced Amrut Meritorious Scholarship for students having more than 9.5 SGPA.
- Majority of students are from rural families and they requires extensions in paying fees. The institute allows such type of students to pay fees in installment.

Right from the establishment of the institute, the dress code is adopted to avoid social and economic disparity.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Link for any other relevant information	View Document

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:

- The institution has been established by great freedom fighter Sahakarmaharshi Late. Shri Bhausaheb Thorat and having the culture of serving the nation, sacrifice for the society.
- The president Hon. Balasaheb Thorat is in Maharasthra Government as minister and always having the thoughts of nation first and serving the society. The culture of serving the society percolates from the leadership in to top management, faculty and students.

Activities for constitutional obligations: values

- Morning schedule starts National anthem and end with National Song in the evening; centrally which motivates students with positive vibes and encourages for academic discipline in the campus.
- Constitutions Day, National Voters Day, Road Safety Education Program, Reading Inspiration Day, Environmental Day are celebrated.
- The institute has appointed faculty member as "Yuva-Mahiti-Doot" to propagate importance of Voting and registration process. The students creating awareness about registration in voter's list and register themselves in voter's list.
- The National Service Scheme (NSS) volunteers created awareness about Mask preparation, COVID-19 protocols by poster and video on social media.

Activities for Duties and responsibilities of citizens:

- Every faculty, students and staff follows the dignity of national anthem and national song.
- Independence Day, Republic day are celebrated every year with grand auspicious function and faculty, staff, students attends it.
- The "Dandakaranya" movement for tree and seed plantation was started by Late Bhusaheb Thorat. It is continued by faculty and students.
- Students residing in Sangamner city are allotted with five neighboring families for guiding them about segregation of wet garbage and dry garbage. They also motivate family members for setting up water harvesting unit at their homes.
- The audit courses regarding values, rights, duties and responsibilities of citizens, "Introduction to Constitution" is preferred for students in academic learning.
- The eminent personalities visited the campus during annual functions and guided the students

regarding values, ethics and patriotism.

- In the campus tobacco chewing and smoking is banned.
- Water saving oath is followed by students, faculty and staff members on World water day.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

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	<u>View Document</u>
Code of ethics policy document	View Document
Any other relevant information	View Document

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

Response:

Institution celebrates commemorative days, events and festivals by central AVCOE Cultural club. The cultural activities are informal and are intended to sensitize the academic world to other dimensions of human experience and knowledge, with the hope that this would enrich the lives of students and make them aware of their social responsibilities and understand the implications of their actions.

• Faculty coordinator of student association and student president is member of central cultural committee. Event calendar is prepared at the start of each semester and events are assigned to the departments in which one department to lead the activity and other department to participate.

- **Commemorative days**: The Independence day and Republic day is celebrated at large scale. Birthday anniversary of Mahatma Gandhi, Dr.Babasaheb Ambedkar, Chhatrapati Shivajimaharaj, Lokmanya Tilak, Swami Vivekanand are celebrated in campus.
- Events: Teacher's Day is celebrated on occasion of birth anniversary of Dr. Sarvpalli Radhakrushnan, which is celebrated centrally as well as at departmental level, to show the honor and respect towards the teachers. Distinguished speaker from society is called for speech on "Role of Teachers in Society". Several Experts are called during last few years for motivation to the teachers. The Engineers day is also celebrated on occasion of birth anniversary of Sir. M.Vishweshwarayya to express gratitude towards great engineer.
- **Festivals:** The tradition of celebrating Ganesh Festival, Khandenavami, Navratri, Holi, Krishna Janmashtami festival is continued. **MEDHA-Youth-Cultural festival** is celebrated every year at grand level. Around 10000 students from Sanstha participate in this festival. First it is interclass competition and then intercollegiate competitions are conducted. Such a celebrations enhances the involvement of students in organizing the events ultimately improves their team work, event handling ability and confidence.
- Singing, Dancing, Fashion Show, Drama, Musical Instrument Playing, Traditional Day, Yoga, Marshal Art, Spot Painting, Cartooning, Origami, Rangoli, Project Exhibition, Extempore, Group Discussion, Debate etc. are the parts of MEDHA cultural festival.
- Students participate in "Bhausaheb Thorat-Annasaheb Shinde Jayanti Mahotsav", a cultural program that imbibes the values of great freedom fighters to the next generation.
- The students are also motivated to participate in various intercollegiate and university level competitions.
- Students are felicitated and awarded at the Institute for their remarkable performance and achievement in cultural activities and events.
- Many other events conducted under NSS like Street Plays focusing on Social Causes (For Deaf & Dumb Students, Road Safety, Traffic Rules, Swach Bharat Abhiyaan, Women's Day, Self Defense, Stress Management etc.).
- Departmental Associations events include skits on various occasions, Engineer's Day, Teacher's Day, Guru-Pournima, Fresher Party and Sendoff function for final year students etc.
- Marathi Bhasha Din and week is celebrated and various events like "Kavi-sammelan", Poem writing competition, debate are organized that encourages students in leadership, team management, improving social & ethical values, cultivating presentation skills, self-confidence and soft skills.

File Description	Documont
The Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document
Link for any other relevant information	View Document

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 1:

1. Title of the Practice:

"Employability Enhancement through 360 degree development of the students by regular up gradation in professional skills."

2. Objectives of the Practice:

- 1. To make students confident through professional activities.
- 2. To upgrade skill sets required for professional career and campus placements.
- 3. To impart all graduate attributes among the students through curricular, co- curricular and extracurricular regular activities.

3. The Context:

In learning context of students, the cognitive, psychomotor and affective domains are three important aspects. The cognitive abilities include technical knowledge and are acquired through regular classroom and practical sessions. However, it requires additional efforts to impart psychomotor and affective aspects through professional skills in engineering education. Current placement drives have stages like aptitude test, group discussion, technical interview and personal interview. The aptitude, communication skill, self-confidence is necessary to complete all these phases for successful campus placements. The feedback obtained from industry experts, alumni, HR executives suggest that only academic performance is not enough to get quality placement. The students are also required to have skill sets of core domain required by industries so that the students will be productive from day one. Soft skills are also very important in their professional career. Hence, activities to ensure 360 degree development are essential to improve conversion ratio in successful placements.

4. The Practice:

The professional skills of students are continuously updated as it is need of hour through regular professional activities as described below:

4.1 Hands on Practice in Laboratories for mini projects: Every department has practice of skill based learning to understand the basic concepts practically and acquiring hands on experience.

4.2 Value Added Program/Workshop by Industrial Experts: Besides curriculum, department facilitates various value-added courses, seminars/guest lectures/expert lectures by eminent personalities.

4.3 Department Students Association/Chapter Activities: : Innovative activities such as role play, technical quiz, brain storming, general and technical aptitude tests, group discussion, extempore contest, project and poster exhibitions are conducted regularly under the department students association to ensure overall development of the students.

4.4 Soft Skill Trainings for all students: Being located in rural part, the institute is facing the challenge of soft skills of the students. Communication skills, aptitude test proficiency are important part of soft skill. Special agency is assigned for exclusive sessions on soft skills. It works on practice of group discussion, debate, aptitude, personal interview and provides corrective measures.

4.5 Special Industry Placement oriented Trainings: Exclusive Career Development Center that has sufficient human resources and modern facility is available for student's campus placement and training activities. It organizes company specific activities, aptitude tests, mock technical interviews, personal interviews preparations etc.

4.6 Language Proficiency Program: CDC exclusively organizes training activities for learning Japanese and German Language.

4.7 Internships and industrial trainings for TE and BE students: CDC regularly keep track with industry and alumni network and provide internships to maximum possible number of students.

The detailed year wise summary of all programs is given in table:

Year	Dept. Association Activities	Alumni Interactions	Value Added Courses	Guest Lectures	Workshops Seminar	/Internships provided	No. Training Courses Organized	ofNo. stuo ben
2019-20	169	66	35	68	53	92	5	715
2018-19	146	52	21	66	30	367	4	639
2017-18	166	82	35	60	71	256	4	674
2016-17	136	27	33	78	40	207	3	659
2015-16	105	24	24	60	54	135	2	587

4.8 The Buddy Scheme: The activity started with aim of getting proper guidance to the students from alumni as younger brother/sister on study, career, and technical certifications. Each department takes a concern from alumni and informs him/her about allotment of students. Further, student will communicate with alumni and alumni will Guide the students like alumni's younger brother/sister on,

- How to Study as per Industry demand
- Technical certifications
- Foreign language
- Future Plans
- Need of presentation and effective
- Importance of in plant training Vacation Internship
- Communication
- Need of training on latest trends

5. Evidence of Success:

• During previous three years, placement ratio is average 90% against number of eligible students for

placement.

- Average numbers of students trained are more than 660 per year which indicates maximum numbers of students are trained through additional training sessions.
- The highest package offered to student is 10 Lakh per annum and average package of the placed student is 2.76 Lakh per annum.
- Four students also got International placement in "OS Technology", Tokyo, Japan, with the package of 19.28 Lakh per annum.
- A higher placement created brand name of the institute in the state that attracted meritorious students for first year admissions.

Placement Record:



(* Year 2019-20 placements affected by Covid-19 Pandemic)

Placement details:

Sr. No.	Academic Year	Number of	No. of Eligible Students for	No. of Placed	Placem
		Companies visited	Placements	Students out of	
				eligible students	Ir
1.	2015-16	74	389	212	5
2.	2016-17	76	453	359	79
3.	2017-18	97	479	415	86
4.	2018-19	79	598	577	
5.	2019-20	72	498	461	89
6.	2020-21*	33	545	140	25

***Ongoing process**

6. Problems Encountered and Resources Required:

As most of the students are from rural background, they lack in English communication, presentation skills

and expressions. Their confidence level is comparatively lower. It takes lot of deal and need counseling sessions to make them participative. Students are reluctant to participate in paid training sessions due to their economic constraints as most of them are getting scholarships for their regular academics. Hence, institute bears some part of fees to have maximum enrollment for trainings. Since institute is bearing infrastructure cost, the overall expenses for training programs is less compared to open market. Activities implemented to enhance student's confidence through Career Development Cell (CDC) and Department association activities. CDC is exclusively involved in yearly planning and conduction of training activities. The input from the industry experts/ external agency/ alumni/ academicians is to be taken while preparing activity plan. Student's mentoring is necessary while selecting value added course, foreign language trainings. Buddy scheme helps to overcome various concerns of students by interaction with alumni. However, time management of alumni is also critical aspect for success of this scheme. The corporate like infrastructure is established to get acquainted with corporate environment and ease of use to perform better.

Best Practice: 2

1. Title:

To setup energy efficient, pollution-free campus by utilizing Nonconventional energy sources.

2. Objectives of the Practice:

- To reduce dependency on fossil fuels for energy security and sustainability by utilizing solar and solar-wind hybrid energy for electrification of campus.
- To use solar water heaters for student's hostels
- To promote green and clean power to reduce the Carbon emission.
- To create pollution-free environment by treating sewage and tree plantation for green and clean Campus.
- To use canteen waste food, biomass for bio-gas plant and preparation of the compost

In overall, the aim is to prefer non-conventional energy sources in the campus and reduce carbon emission leading to pollution free and ecofriendly campus.

3. The Context

Presently, due to increasing cost of crude oils and scarcity of fossil fuels, nonconventional energy sources are preferred at all possible conditions. The nonconventional energy sources attracted since previous few decades as those are having added advantages. The pollution-free energy sources are the biggest advantage of using these sources. Previously, the electricity bill of around Rs. 14 Lakhs per year was main part of the institute's recurring expenditure. The canteen food waste and biomass management is another aspect of creating healthy environment in the campus. The sewage water disposal is also main concern. The idea of reduce, reuse and recycle is the key aspect for proper waste management. In order to set up energy efficient and pollution free campus, it was decided to leverage the nonconventional energy sources.

4. The Practice: Considering the importance of non-conventional energy sources and the need of satisfying increasing energy demand, the non-conventional energy sources are effectively utilized. The detailed procedures of survey, plan, procurement, installation, commissioning and regular maintenance for

various plants have been setup. The use of non-conventional energy sources have been achieved through following plants.

4.1 Solar Energy:

a. Institute has installed 400 KW Solar Roof Top PV Plant as a clean energy project to make the campus eco-friendly. The project has been successfully installed and generating power which is more than energy requirements of the campus. The surplus power of about 4 Lakh units is exported to Maharashtra State Electricity Distribution Corporation Ltd. (MSEDCL). Details of solar rooftop PV Plant are,

Installation cost (Rs)	= 1,48,25,000/-
Generated electricity	= 1511 Mwh
Saving (Rs)	= 2,06,25,000/-
CO2 Saving	= 1600 Tons/ year



b. Solar-Wind (Hybrid) energy:

5 KW Hybrid Solar Wind Energy System is installed successfully at roof top of main building and cost of the installation is Rs. 12 Lakhs. It is also used for practical demonstration to the students.

c. Solar Water Heaters for Hostels and other Utilization of solar energy:

- Using solar water heater at hostels. (capacity 41000 Litres per day)
- Use of Solar street lights in the campus

4.2 Solid Waste Management through Biogas used for cooking:

Solid waste collected from mess and canteens which is used for generation of biogas under the theme of "Reduce, Recycle and Reuse". Daily 28.4 Kg of bio gas is produced and utilized in Annapurna Mess. Annually 3 tons of manure is generated through vermicomposting. The same is utilized for gardens in campus.

4.3 Liquid Waste Management and saving carbon emissions:

Waste water generated from Amrutvahini Campus includes sewage from the educational buildings, boy's hostels, girl's hostel and staff quarters etc. It needs treatment before discharging it as effluent into natural stream/river etc. and same treated waste water can be utilized for various purposes like gardening and irrigation. To treat waste water, innovative 3E (Eco-friendly, Economical, and Efficient) microbial technology has adopted by the institute. In 2019, Sewage Treatment Plant (STP) having capacity of 0.4MLD is started.

Sewage Treatment Plant installation cost (INR In lakhs) = 35.5

4.4 Additional Measures for saving electricity:

- By using microprocessor based Automatic Power Factor Correction (APFC) bank for maintaining the supply P.F to 1.
- 500 KVA online tap changing transformer is used to maintain the voltage constant.
- Star rating equipment and machinery are preferred.
- Effective utilization of natural light in the building.
- Water supply in Sanstha premises through gravitational water flow.
- LED lamps and Electronic ballast are used to reduce energy consumption.

4.5 Participation for Awareness Program of Gandhi Global Solar Yatra:

The institute organized Students Solar Ambassador Workshop in association with IIT Bombay on 2nd October 2019, 150th Birth anniversary of Mahatma Gandhi where in 875 students and 40 trainers from institute participated which was Guinness World record event (Gandhi Global Solar Yatra). Trainers trained the students for assembling the solar-LED lamp unit and learnt practical skills.

5. Evidence of Success:

- 1. The institute has already recovered the installation cost of Solar Energy project, and more than 4.0 Lakh units are exported to MSEDCL.
- 2. Reduction in Energy Consumption as Reflected in Electricity bill.
- 3. Clean and Green Campus Award from AICTE, New Delhi in year 2017-18.
- 4. Received 12th State Level Energy Conservation Award of excellence in energy conservation and management by MEDA in year 2018-19.
- 5. Clean and Smart campus award during 2018-19 from AICTE, New Delhi.
- 6. The institute is awarded as "Energy Efficient Unit" in 21st National Energy Award for Excellence in Energy Management organized by Confederation of Indian Industry (CII) in year 2019-20.

6. Problems Encountered and Resources Required

The economical and effective technologies were identified and finalized with the view of successful

implementation and operation. The initial cost of all these systems is huge and requires proper justification. The in-house resources such as faculty members, civil and electrical maintenance department have contributed immensely to different activities like survey, planning, procurement, commissioning and installation. The regular operation and maintenance are looked after by deputed faculty members. The awareness about microbial culture for treating sewage water was a new concept and had apprehensions about its success.

7. Notes (Optional)

The pre-sanctioned subsidy of Rs. 65.00 Lakh was received from Solar Energy Corporation of India Limited (**SECI**) for Solar Roof Top PV Plant. In addition, grant-in-aid of Rs. 5.0 Lakh received from Savitribai Phule Pune University, Pune under Quality Improvement Programme.

File Description	Document
Link for Best practices in the Institutional web site	View Document
Link for any other relevant information	View Document

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:

Performance of the Institution in broader area distinctive to its priority through following major four categories and enlisted activities:

1. Excellence in Academics:

- Learning Practice
- Use of private cloud for repository and Digital Media
- Amrut-Meritorious scholarship

2. Efforts for developing promising technical graduates:

- Centre of Excellence in Department
- Amrut Expo- Institute Level Project Competition
- SAKURA- Japanese Learning Centre
- Robotics Club, IEEE Student's Branch, Aeronautical Society of India chapter

3. Activities for inculcating Society and Value Based approach:

• Unnat Maharashtra Abhiyan (UMA, one among 12 private colleges selected) and Unnat Bharat

Abhiyan (UBA)

- Innovative Rural Based Projects
- Social and Nature Awareness Program through Trekking.
- Soil Health Card for farmers
- Blood Donation and Blood helpline

4. Additional Utilization of Resources

- Examination center for State and National agencies
- Career Guidance for 12th Science
- Department Services and Consultancy
- Extended Time for student's Counseling

The institute would like to highlight "Amrut Expo- Institute Level Project Competition" as one area distinctive to its priority and thrust.

Practical skills are an important component for any engineering professional. These skills are developed during practical sessions, mini project and major project work. Along with this, soft skills are required for demonstration of projects in professional career. Project competition provides open platform for all students for showcasing their technical and soft skills.

The aim of this activity is,

- To have maximum interaction with industry experts, alumni for upgrading technical knowledge and to know recent trends in the industry.
- To acquire project development, presentation skills and competitiveness.
- To demonstrate teamwork and communication skills that boosts the team spirit and self-confidence.

Activity Details :

- Amrut-Expo is the exhibition of projects developed by final year students.
- The final year students are encouraged and guided to undertake innovative, society need based and rural projects such as a cost-effective Milking Machine, Onion harvester, low cost Bamboo House etc.
- After selection of project idea is demonstrated to alumni, industry experts and suggestions given by them are incorporated.
- The projects are handhold, evaluated periodically by alumni and experts from industries.
- The weekly continuous review and follow-up for project work is necessary to have project completion in time for project competition.
- Students interact with judges, alumni and industrial experts, who evaluate the projects during exhibition.
- Best three projects awarded with cash prizes departmentwise.
- The exhibition is kept open for stakeholders and public visit.
- Students visiting exhibition gets motivation and creates good projects in successive years.
- Student's practical skill sets are improved by this activity.

Outcomes:

- Students are encouraged and supported financially for participating in State, National and International level competitions like India-Asean Hackathon Smart India Hackathon, SAE-BAJA (TIFAN, M-BAJA, E-BAJA, Solar, Go-Cart, Efficycle, Formula Bharat), Aero design Challenge.
- Seventeen numbers of patents and two copyrights are filed.
- Students published project related work in National/International Conferences and Journals.
- Students got recruitment in reputed MNCs and industries with higher package based on project work.
- Students are awarded with certificate and cash prizes in State, National and International level competitions.
 - 1.39th Rank in SAE Student Formula 2019 competition at Budhha Circuit , Noida, U.P.15-20 July, 2019
 - 2.13th Rank in SAE AERO Design Challenge 2019 competition at Chennai.
 - 3.AIR overall 24th Range Test in 4th SAE E-Bike 2019 competition at Errode, Tamilnadu. 26-29 Sempember,2019
 - 4. Team Mavericks Participated at MPKV, Rahuri in SAE TIFAN 2019 Competition and 1st winner, (Rs. 1,50,000/-), Best Design Award (Rs. 25,000/-)
 - 5. Team Ashwavega's (E-BAJA-Self designed electric power based ATV) won consolidated Prize of Rs.1,00,000/-with all India rank 31st and 8th in Maharashtra at Pitampur, Indore (M.P.), 23rd – 27th January, 2019. SAE India BAJA 2019
 - 6. Team Titans (m-BAJA-Self designed and manufactured ATV) got all India rank 73 among 420 teams at National level at Pitampur, Indore (M.P.), 23rd 27th January, 2019
 - 7. Team Sunstrikers got All India Rank 3 and Winner in Autocross Future Solar Design Challenge 2019 at Chitkara University, Rajpura, Punjab, 13-16 March 2019.
 - 8.29th Rank in Formula Bharat 2019 competition at Coimbatore, Tamilnadu, 23-27 January, 2019
 - 9.SAE TIFAN Competition 2018 : Team MAVERICKS own the FIRST prize in national level SAE TIFAN (Technology Innovation Forum for Agricultural Nurturing) competition held at MPKV, Rahuri in March 2018. Team bagged following prizes:

FIRST prize: Rs. 2,00,000/-

Best Innovation: Rs. 25,000/-

Best Productivity: Rs. 25,000/-

Best Design: Rs. 25,000/-

- 1.Team MAVERICKS received Education and SOS awards and Certificate of Appreciation at Krishithon Nashik, 26.11.2018.
- 2. Team Sunstrikers cracked virtual round with 88% successfully of Future Solar design Challenge.
- 3. Team Vegam, Secured 9th Rank all over India in Go Kart competition held at Lovely Professional University, Jalandhar, Punjab.
- 4. Traditional Stunners from TE Production won 1st Prize at Umang 2K19 organized by Pravara Technical Education Campus, Nashik in Feb2019.
- 5. Team SKY from SE Production Won 2nd prize in Robo war competition organized in Project exhibition 2018-19.
- 6. Team Vegam secured 7th rank in 'Ecocart' competition at Greater Noida, Delhi.
- 7. Rohan Kulkarni and team bagged second prize of 1700 USD, Tejas Bidwai and team received

consolation prize of 600 USD in Asean India Hackathon-2021.

- 8. Team Tripod got 2nd Prize of 1 Lakh Rupees at HACKATHON 2021 organised by SPPU, Pune.
- 9. Vedeshwari Raut and team got consolation prize in i4C Blogathon organized by AICTE & SMART INDIA HAKATHON 2020.
- 10. Team Orca of Computer Engineering department bagged first prize of 1 Lakh Rupees in Smart India Hackathon-2020 for project of DRDO, Government of India.
- 11. Total seven teams from the institute shortlisted for AICTE Chhatra-Vishwakarma Awards.
- 12. Avdhoot Kanawade, participated in Smart India Hackathon (SIH-2019) interacted with Hon. Prime Minister of India at I.I.T. Karagpur, West Bengal. They also filed the patent.
- 13. Abhijit Thorat selected as innovator at "Digital Impact Square TCS Innovation Center", Nashik with 6 month stipend of 0.9 lakh rupees and 1.5 lakhs for next 6 month.
- 14. The Scientific Officer of Ministry of Defence Mr. V. Ravindranath felicitated and congratulated Navnath Wagh for completing sponsored project.
- 15. Bhushan Chaudhary and team given trophy in the name of "Krushi-Mauli-Puraskar" for researchbased project in the International Krushi-Mahotsav 2020.
- 16. Chinmay Kulkarni and team given trophy in the name of "Krushi-Mauli-Puraskar" for researchbased project in the International Krishi Mahotsav 2019.

File Description	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

5. CONCLUSION

Additional Information :

- Institution has adopted innovative and creative teaching learning practices which encourage teachers and students to explore, research and use all the tools to uncover new activities like study group, Hands on practice, MCQ's practices to understand and analyze the concepts.
- Unique features of the College :
- Virtual Lab-Nodal Center
- Centre of Excellence in Institute
- Innovative Rural Based Projects and Mini Projects Assessed by Alumini
- Career Guidance, Hands on Practices
- Center for pool campus for various Industries
- Library IIT Mumbai Library, ARAI Pune
- Blood Helpline
- DATAQUEST CMR Survey Top T School 2020 (Top T-Schools in India: 46th Rank; Zone Wise Top 10 T-Schools: West Zone: 6th Rank; Top T-Schools(Private): 36th Rank.
- Energy Efficient Unit Award in 21st National Energy award for excellence in Energy Management 2020 by Confederation of Indian Industry (CII).
- 12th State level award for excellence in energy conservation and management by MEDA 2018, Government of Maharashtra.
- Clean Campus Award-2017 by AICTE, New Delhi held at COEP, Pune.
- National level Clean and Smart Campus Awards-2019 by AICTE, New Delhi.
- Team IREDESCENT was appreciated by Prime Minister of India for Augmented Reality project at Smart Hackathon 2019 held at IIT Kharagpur.

IEEE MTT's Students Branch Chapter recognized, IEEE Microwave Theory and Techniques Society 2016. This chapter received outstanding chapter award with cash prize of \$ 1500 and a plaque.

AVCOE- ISHARE Chapter received Best Student Chapter Award -2017-18; and Rising Student Chapter award in 2018-19

IIT Delhi had selected the institute as a Central HUB for conducting the workshop on 'Security'.

IIT Bombay has selected the institute as Remote Center for conducting workshops under NMEICT. Also recognized as Nodal Center for Virtual Lab.

Institute is nodal center in Ahmednagar district of UES of Indian Army.

Department of Mechanical Engineering hosted MechPGCon in the year 2019 and published a special issue of IUP journal. Department of Computer Engineering Organized cPGCon 2020 and published conference proceeding IJCET in 2021.

Institute is synonymous for green cover and recognized for conservation of energy and saved nearly 1451.49 tons of CO2 emission per year.
Concluding Remarks :

Institute has been striving hard for past 38 years with a proactive approach in order to fulfill its mission of creating self-disciplined, physically fit, mentally robust and morally strong engineers and technocrats who can serve the mankind and nature. With diligent effort of positive and participative Management, the academic growth is sustained and harmonious relationship is maintained among the faculty, students and management which remains as a key to success. The vision of the founder to propagate technical education amongst the needy, and ultimately boosting the socio economic progress of the rural environment has been realized.

The Institute is continuously concentrating on excellence in technical education. The systematic and well planned efforts of the Institute in this regard are reflected in activities conducted throughout these years that resulted in owning lot of recognitions and credentials.

The governance comprises of boards of trustees, chief executive officer, manager, GC, CDC, AAB, IQAC, Academic Monitoring Committee and various institute level committees. This plays a considerable role in the evolutionary reforms towards positioning the Institute in the preferred list of all stake holders.

The academic infrastructure is equipped with state of the art facilities to enhance the quality of teachinglearning process. Adequate budgetary provisions are made to maintain and augment the existing Infrastructure. Institute has well established organizational structure to execute smooth functioning of administrative and academic processes.

The institute hosts Alumni meet every year. Alumni extend support to students in placements and help them in launching their career. Alumni also donate their valuable time to offer career support to current students through innovative schemes such as Buddy Scheme, Amrut Expo and Professional Networking Opportunities.

The IQAC continuously monitors academic and administrative aspects. The institute caters its Best practice in order to enables different types of learners to adopt them for 360 degree development and entrepreneurial endeavors.

With all credentials and experience demonstrated over these years in technical education so far and in line with new education policy, institute is setting more 'Excellence Centres' in association with industries, reckoning in NIRF and planning to go for Academic Autonomy in near future.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Q	uestions an	d Answers	before and a	after DVV	Verification	
2.4.3	Avera	age teachin	g experiend	ce of full tir	ne teachers	s in the san	ne institution (Data for the latest
	comp	icicu acauc	mit year n	i number o	n years)		
	2.4	.3.1. Total	experience	of full-tim	e teachers		
		Answer bei	fore DVV V	Verification	: 1865		
		Answer an	er Dv v ve	rification: 1	805		
3.3.2	Numb	per of resea	arch papers	s per teache	ers in the J	ournals not	tified on UGC website during the
	last fi	ve years					
	3.3	3.2.1. Num ł	per of resea	rch papers	in the Jou	rnals notifi	ed on UGC website during the last
	five y	ears.					
		Answer be	fore DVV V	Verification:	-		1
		2019-20	2018-19	2017-18	2016-17	2015-16	
		103	54	56	100	131	
		Answer Af	ter DVV Ve	erification :			
		2019-20	2018-19	2017-18	2016-17	2015-16	
		96	48	50	94	124	
]
	Re	mark : obse	ervation acco	epted and e	dited accord	lingly	
3.3.3	Numb	per of book	s and chap	ters in edit	ed volumes	s/books put	blished and papers published in
	natioi	nal/ interna	itional conf	erence pro	ceedings p	er teacher (during last five years
	3.3	3.3.1. Total	number of	books and	chapters in	n edited vo	lumes/books published and papers
	in nat	tional/ inter	rnational co	onference p	oroceedings	s year-wise	during last five years
		Answer be	tore DVV V	erification:			1
		2019-20	2018-19	2017-18	2016-17	2015-16	_
		16	53	31	35	35	
		Answer Af	ter DVV Ve	erification :			
		2019-20	2018-19	2017-18	2016-17	2015-16	
		12	34	10	20	21	
	Re	mark : obse	ervation acc	epted and e	dited accord	lingly.	-
				r und e		-0-,.	
3.4.2	Numb	per of awar	ds and rec	ognitions r	eceived for	extension	activities from government/

government recognised bodies during the last five years 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. Answer before DVV Verification: 2019-20 2018-19 2017-18 2016-17 2015-16 17 8 14 4 5 Answer After DVV Verification : 2019-20 2015-16 2018-19 2017-18 2016-17 05 10 2 2 12 Remark : observations accepted and edited accordingly. 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year 3.5.1.1. Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years Answer before DVV Verification: 2019-20 2018-19 2017-18 2016-17 2015-16 124 32 4 2 58 Answer After DVV Verification : 2019-20 2018-19 2017-18 2016-17 2015-16 54 118 30 3 2 Remark : observations accepted and edited accordingly. 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) 4.1.3.1. Number of classrooms and seminar halls with ICT facilities Answer before DVV Verification: 45 Answer after DVV Verification: 45 4.2.2 The institution has subscription for the following e-resources 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership

	4. e- 5. D	books atabases	5				
	6. R	emote a	ccess to e-r	resources			
	An An	swer bef swer Aft	fore DVV V ter DVV Ve	verification	: A. Any 4 o B. Any 3 of	or more of t the above	he above
6.3.4	Average Program Orientati	percenta mes (FI ion / Ind	age of teacl DP)during (luction Pro	hers under the last five grammes,	going onlin e years (Pro Refresher (e/ face-to-f ofessional I Course, Sh	ace Faculty Development Development Programmes, ort Term Course).
	6.3.4.1 Orientati the last fi An	I. Total ion / Ind ive years swer bef	number of luction Pro s Fore DVV V	teachers at ogramme, F Verification:	ttending pr Refresher C	ofessional Course, Sho	development Programmes viz., rt Term Course year-wise during
	20)19-20	2018-19	2017-18	2016-17	2015-16	
	13	36	64	89	78	52	
	An	swer Aft	er DVV Ve	erification :			
	20)19-20	2018-19	2017-18	2016-17	2015-16	
	13	86	64	83	69	47	
	last five y 6.4.2.1 during the An	years (no l. Total (e last five swer bef	ot covered Grants recei e years (IN) Fore DVV V	in Criterio wed from no R in Lakhs) verification:	n III) on-governm	nent bodies,	individuals, Philanthropers year wise
	20)19-20	2018-19	2017-18	2016-17	2015-16	
	.3	3	3.17	2.28	0	0	
	An	swer Aft	ter DVV Ve	erification :	<u>.</u>	1	-
	20)19-20	2018-19	2017-18	2016-17	2015-16	
	0		0	0	0	0	
	Reman	rk : exen	npted mater	ic			
7.1.7	The Insti	itution h	as disabled	l-friendly,	barrier fre	e environn	nent
	1. Br 2. D 3. Si 4. A	uilt envi isabled-: ignage ir ssistive (ebsite, s	ronment w friendly wa ncluding ta technology creen-read	vith ramps/ ashrooms ctile path, and facilit ing softwar	lifts for eas lights, disp ies for pers re, mechan	y access to lay boards ons with di ized equipi	classrooms. and signposts isabilities (Divyangjan) accessible nent

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: B. 3 of the above Remark : HEI input is edited as per given data.

2.Extended Profile Deviations

ID	Extended Q	Questions				
1.2	Number of	f programs (offered year	r-wise for la	st five years	
			· c.			
	Answer bei	tore $DVVV$	erification:	2016 17	0015 16	1
	2019-20	2018-19	2017-18	2016-17	2015-16	1
	14	15	17	17	17	
	Answer Af	ter DVV Ver	rification:			
	2019-20	2018-19	2017-18	2016-17	2015-16	
	15	15	17	17	17	
		-				-
2.1	Number of	f students ye	ear-wise du	ring last fiv	e years	
	Answer bet	fore DVV V	erification:			
	2019-20	2018-19	2017-18	2016-17	2015-16]
	3202	3453	3456	3493	3776	
		DIMIN				
	Answer Af	ter DVV Ver	rification:	0016.17	0015 16	1
	2019-20	2018-19	2017-18	2016-17	2015-16	-
	3361	3453	3456	3493	3776	
3 1	Number of	f full time to	achars vog	r-wiso durin	a the lest fi	70 V00PS
5.1			achers year	-wise uur in	ig the last h	ve years
	Answer bef	fore DVV V	erification:			_
	2019-20	2018-19	2017-18	2016-17	2015-16	
	198	205	202	216	207	
	Answer Af	ter DVV Ve	rification			
	2019-20	2018-19	2017-18	2016-17	2015-16]
	195	205	202	216	207	-
	L				<u> </u>	
4.2	Total Expe	enditure exc	luding sala	ry year-wise	e during last	t five years (INR in Lakhs)
	Answer bef	tore DVV V	erification:			

2019-20	2018-19	2017-18	2016-17	2015-16
907.40	937.50	802.90	667.81	604.14
Answer Af 2019-20	ter DVV Ve 2018-19	rification:	2016-17	2015-16