YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	Amrutvahini College of Engineering, Sangamner
• Name of the Head of the institution	Dr. M. A. Venkatesh
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	02425259148
• Mobile no	9972132130
• Registered e-mail	principal@avcoe.org
• Alternate e-mail	mavenka@gmail.com
• Address	Amrutnagar, Ghulewadi Tal - Sangamner, Dist. -Ahmednagar Pin code - 422608
• City/Town	Sangamner
• State/UT	Maharashtra
• Pin Code	422608
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**UGC 2f and 12(B)**	
• Name of the Affiliating University	**Savitribai Phule Pune University**	
• Name of the IQAC Coordinator	**Dr. R. S. Tajane**	
• Phone No.	**9850265484**	
• Alternate phone No.	**02425259018**	
• Mobile	**9850265484**	
• IQAC e-mail address	**iqac@avcoe.org**	
• Alternate Email address	**ravindra.tajane@avcoe.org**	
3.Website address (Web link of the AQAR (Previous Academic Year)	http://www.avcoe.org/aqar.php	
4.Whether Academic Calendar prepared during the year?	**Yes**	
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.avcoe.org/academic_calendar.php	

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**A**	**3.01**	**2016**	**17/03/2016**	**16/03/2021**
Cycle 2	**A+**	**3.4**	**2021**	**22/11/2021**	**21/11/2026**

6.Date of Establishment of IQAC — **02/01/2015**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechanical/Dr.V.S.Gadakh	RPS	AICTE, New Delhi	2020	2156863.00
Electronics and Telecommunication Engineering/ Dr.Rekkha Punjaji Labade	IEEE-APS Annual chapter Support Fund	IEEE	2020	244775.00

8.Whether composition of IQAC as per latest NAAC guidelines	Yes	
• Upload latest notification of formation of IQAC	<u>View File</u>	

9.No. of IQAC meetings held during the year	4	
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	

10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
• If yes, mention the amount		

11.Significant contributions made by IQAC during the current year (maximum five bullets)

Support and initiatives for most concurrent corporate placement in IT and core specializations.

IQAC proposed to established sub -cell's in collaboration with Research and Development Cell (AVCOE) i.e Intellectual Property Rights cell, Startup and Innovation Cell, Institutions Innovation Council.

Application and preparation for NAAC 2nd cycle and NBA certification pregame.

Change management as to adopt virtual and classroom teaching after COVID pandemic.

Academic and extracurricular activities planning and monitoring. Feedback mechanism up gradation.

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
NAAC SSR Proforma Changes And Amendment Discussion	Head of the Departments were instructed to Prepare accordingly and submit the report to IQAC. Verified and completed successfully
Faculty Development Program	Through NPTL, NITTR, ATAL. Swayam etc. monitored as Enrolled Vs Completed
COVID- 19	All are Instructed to follow guidelines peculated. Stakeholders motivated to follow WFH guidelines
Visits Planed to Departments for IQAC Compliances , AQAR 20-21	Team Prepared and Deputed reviews taken time to time, Submitted (Online) as per New guidelines ,In process
Student Satisfaction survey	Every department communicated to Make Template Available in ERP, Accountability with ERP Coordinator
NAAC Second Cycle NBA Progress	Formulation and Implementation in progress. Awareness FDPs Planned. NAB for CIVIL, E&TC, IT Applied - Duly planed and succeeded.
Result Analysis	Is up to the performance ,Can be increased
SPPU Examination Changes	University examination will be conducted online. Done Student awareness through class teachers

13.Whether the AQAR was placed before statutory body?	**Yes**

- Name of the statutory body

Name	Date of meeting(s)
Governing Council (GC)	**08/01/2021**

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2020-21	**27/01/2022**

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	**520**

File Description	Documents
Data Template	[View File](#)

2.Student

2.1 Number of students during the year	**3359**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**436**

File Description	Documents
Data Template	[View File](#)

2.3 Number of outgoing/ final year students during the year	**944**

File Description	Documents
Data Template	[View File](#)

3.Academic	
3.1 Number of full time teachers during the year	**191**

File Description	Documents
Data Template	[View File](#)

| 3.2

 Number of sanctioned posts during the year | **171** |

File Description	Documents
Data Template	[View File](#)

4.Institution	
4.1 Total number of Classrooms and Seminar halls	**50**
4.2 Total expenditure excluding salary during the year (INR in lakhs)	**98.68635**
4.3 Total number of computers on campus for academic purposes	**1125**

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

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.

- 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	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

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

- AccordingtoSPPU'sdirectives, academiccalendarsareprepared at institute level. Based onthiscalendar,departments preparetheirowncalendarsthatinclude curricular, co-curricular,and extra-curricular activities.
- The University proposes the start and end dates of semester, in-semester, end-semester ,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.
- Thefacultypreparesateachingplanaccordingto the academic calendar. Department monitoringcommitteesmonitoractivitiestoensuresmoothlectures and practical sessions. Eachstudent'sattendanceisrecordeddailyin Sackinfo ERP software.Absences ofstudentsarecommunicated to parentsthroughSMSon a regular basis. Attendanceofstudentsless than 75%issubjectedtomake-up classes of respective subjects. Status of syllabus completion, defaulter students is reviewed bytheHOD, class teacher,and tutor teacher.

- Class tests, assignments, seminars, tutorials, guest lectures, industry visits, value-added courses, and other activities are scheduled according to the academic calendar. Internal evaluation includes reports from class tests and assignments.
- Unit tests/prelim exams are held centrally according to the timetable, and the results, as well as attendance, are disseminated to students and parents. When a student's performance is poor or he or she is absent, the parents of that student are contacted for counselling and corrective action.
- The continuous assessment of Practical/Term work is done based on record conduction and viva (RCV/ACO). On the basis of record conduction and viva (RCV/ACO), the continual assessment of Practical/Term work is done.
- Value-added courses are designed ahead of time and implemented according to an activity calendar. The mapping of planned and carried out actions is also validated.
- For both slow and advanced learners, the learning process is organised according to a schedule. Apart from that, remedial classes for backlog students are held in conjunction with slow learners.
- It is the responsibility of the concerned faculty to plan and correct any deviations in curriculum delivery.
- Periodic audits and compliance with statutory requirements are used to ensure continual improvement. A quality management system based on IQAC guidelines is used to create a strong teaching learning process. The adherence to these activities is monitored twice a semester by an ISO audit in collaboration with IQAC.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	Nil

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 year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma	A. All of the above

Courses Assessment /evaluation process of the affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

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

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

15

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

10

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

2044

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

1.3 - Curriculum Enrichment

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

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	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

79

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	**No File Uploaded**
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

1928

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students	A. All of the above

Teachers Employers Alumni

File Description	Documents
URL for stakeholder feedback report	**Nil**
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows	**A. Feedback collected, analyzed and action taken and feedback available on website**

File Description	Documents
Upload any additional information	View File
URL for feedback report	**Nil**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

590

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

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

468

File Description	Documents
Any additional information	[View File]()
Number of seats filled against seats reserved (Data Template)	[View File]()

2.2 - Catering to Student Diversity

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

The Institute has predefined policy to identify slow and advanced learner and conduct activities accordingly.

The process of slow and advanced learners' identification is based on following parameters.

Sr. No

Parameter

Weightage in %

1

Performance in unit test

15

2

Academic performance.

50

3

Class/Subject teachers feedback

10

4

Activity Participation

25

- The student securing marks below 40% are notified as Slow Learners and the student securing marks above 70 % as Advanced Learners.

Advanced Learner Activities

1. Expert sessions from Industry/Academia on technology advancements.
2. Opportunity to co-ordinate State/National level Seminars/workshops and GD, quizzes, debate, Essay Writing etc.
3. Study group system with slow learners.
4. Buddy alumni Scheme for career and skill guidance.
5. Guidance for GATE, MPSC, UPSC, CAT exams.
6. Financially supported for professional bodies membership like IEEE/CSI/ ISHRAE/ASI/IEI/IETE/ ISTE etc.
7. Registration fees to participate and present papers in various Workshops/Seminars/ Conferences/Hackathon/Inter-Collegiate competitions.

Slow Learner Activities:

1. Simple but standard course material, Recorded video lectures.
2. Learning Practice session for detail discussion on syllabus content/revision.
3. The tutor's interaction with students and parents.
4. Buddy alumni Scheme for career guidance and counseling.
5. Need based counseling by professional counselor.
6. Make up classes for DSE Students.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

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

Number of Students	Number of Teachers
3359	**191**

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

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

The institute encourages and practices experiential learning, participative learning and problem solving methodologies by employing student centric methods wherein faculty plays a role of facilitator.

The following methodologies and initiatives has resulted in enhanced learning experiences.

1. Industry Internships

Students have undergone internships during academic year 2020-21 in a virtual/online mode due to pandemic situation. Those Internships have facilitated experiential learning and helped improve their problem solving skills as students worked on small projects, handled simple tasks and learned industrial practices.

2. Project Based Learning

Final year projects and Project Based Learning are the important components in the SPPU curriculum that allows the students to do active experimentation and learn by doing the things. In project based learning students solve problems, get hands-on experience of using real world components, tools, instruments, equipment and machinery.

3. NSS field work

NSS unit of the institute has been playing a vital role in supporting experiential learning through undertaking various activities. NSS volunteers have participated in various physical as well as virtual events during the 2020-21 pandemic period.

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

The institute has taken keen interest in student's participation for Hackathon competitions. A team from the institute received a runner-up prize in academic year 2020-21 for their project in ASEAN-INDIA-HACKATHON competition. The institute has an active SAE India Collegiate club through which students participate in various

competitions. A team from the institute received a First Prize in the SAEINDIA-TIFAN 2020 final virtual round. Participation in those competitions proved their acumen for participative and experiential learning. These activities also develop their design skills and problem solving skills.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional information	**Nil**

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

The faculty employs ICT enabled teaching learning methodologies and cutting-edge technology for content delivery and learning. The institute has the necessary resources to provide learners with an interactive, engaging, flexible, and convenient ICT-based learning environment detailed as below.

- **Class rooms and Seminar halls are equipped with LCD/DLP projectors, internet/Wi-Fi connectivity and portable public address systems for delivery of digital/multimedia contents.**

- **Faculty utilize ICT tools to teach course content using innovative pedagogy techniques such as Power Point Presentations/Google Slides, animations, info graphics and videos, and YouTube channels.**
- **Learning management system (Moodle), Microsoft Teams and Google Classroom are used to provide assignments and for sharing the learning resources.**
- **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.**
- **The institute's central library is equipped with multimedia PCs, internet access, and access to an institutional repository of class notes, video recordings containing demonstration of the laboratory experiments, e-Books, e-Journal subscriptions, an audio-visual section and a library OPAC system.**
- **The institute is nodal centre for "Virtual Labs" in association with IIT Bombay, under the NMEICT initiative of Ministry of Education for practical. During the Covid-19**

> pandemic, this added a new dimension to course delivery.
> - The soft skill development practical are conducted in dedicated language laboratory with Spoken Tutorials, Orell software and web resources.
> - A separate Japanese Language Learning centre (SAKURA) with smart interactive display facility is established in the institute.
> - Invited expert talks, training programs, workshops and webinars are conducted regularly using ICT facilities.
> - A dedicated Swaayam Prabha Channel facility is made available for students and teachers in seminar hall.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	**No File Uploaded**

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

2.3.3.1 - Number of mentors

172

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	**No File Uploaded**

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

191

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

26

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

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

2.4.3.1 - Total experience of full-time teachers

1959

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

To bring transparency in the internal assessment, students are made aware with evaluation rubrics so that they can focus on various

aspects of evaluation and be aware with the expectations. Exam schedule and time-tables are communicated in advance to the students.

Internal assessment of Unit tests and Prelim examination-

1. Schedule of Mock In-semester and Prelim Exam is given in academic calendar which is 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 identification of common mistakes and students are counselled regarding areas for improvement.

Internal assessment of laboratory work/term work-

1. The laboratory work evaluation is the basis for the award of term work marks. The evaluation is based on A-C-O rubrics covering Attendance/punctuality (A), conduction of practical (C) and oral (O).
2. Final term work marks are displayed at the end of each semester for student information.
3. Students are free to interact with the teacher to resolve grievances if any, regarding the assessment.

Internal assessment of seminar and project work-

Assessment is transparently carried out based on rubrics of evaluation that is made available to the students at the beginning of final year first semester.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	Nil

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

A College Exam Officer and departmental exam coordinators are appointed by the institute for the smooth conduction of exams and for addressing exam related grievances.

External examination related grievances-

University followed a transparent, time- bound and efficient mechanism to deal with grievances for the online exams conducted during Covid-19 pandemic. Every student had an option to submit his/her grievance pertaining to the following points within 24 hours after the examination.

1. Not able to log-in
2. Invalid question paper
3. Images not displayed properly
4. Poor internet connectivity due to natural calamity
5. Auto log-out
6. Self/family member is Covid positive/ quarantined.
7. Any other reason (to be specified by the student)

Upon receipt of such grievances and based on the merit of the grievance, the University have to reschedule the exam for the particular students.

Internal examination related grievances-

Institute conducted internal examinations (Unit tests and preliminary examinations) in an online mode during Covid-19 pandemic as per University guidelines. Re-examination/Re-test were conducted for all the students having grievances on the similar grounds mentioned above.

During normal circumstances, examination related grievances are redressed as per circulars/ rules prescribed by the University.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	Nil

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.

Program outcomes and course outcomes of the all the programmes and courses are stated and communicated to the students through institute website and by display of hoardings at prominent places of the institute.

CO statements address appropriate Blooms Taxonomy (BT) levels by

considering a proper balance of lower, intermediate and higher order abilities and skills to be acquired by the learners. Graduate attributes prescribed by NBA are taken as 12 Program Outcomes.

Mechanism of Communication of POs and COs:

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

- Displayed at main entrance of the departments.
- Published through institute website- www.avcoe.org.
- Conveyed during various value added courses, workshops, seminars, induction programs.
- Conveyed during teaching learning process, tutor meetings.
- Published regularly in institute brochure, departmental magazine.
- Printed on laboratory manuals, project log book.

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

- COs are published through institute website- www.avcoe.org..
- COs are made available for the ready reference of the students through course syllabus copies, notes, hand-outs, lab manuals.
- Course syllabus copies, notes, presentations and lab manuals are also made available to the students in digital media formats.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

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

The institute follows Outcome Based Education (OBE) philosophy for the measurement of levels of attainment of POs, PSOs and COs.

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

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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 = 80 % of Attainment Level of External Assessment +

20 % of 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, program exit survey and employer survey.

Overall PO Attainment= 80% of attainment through direct assessments
+

20% of attainment through indirect assessment.
```

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

930

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View File](#)
Upload any additional information	[View File](#)
Paste link for the annual report	**Nil**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://www.avcoe.org/aqar.php

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 in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

23.99389

File Description	Documents
Any additional information	[View File](#)
e-copies of the grant award letters for sponsored research projects /endowments	**No File Uploaded**
List of endowments / projects with details of grants(Data Template)	[View File](#)

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

3.1.2.1 - Number of teachers recognized as research guides

8

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

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

2

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	**No File Uploaded**
Paste link to funding agency website	**Nil**

3.2 - Innovation Ecosystem

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

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	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

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

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

37

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	[View File](#)
List of workshops/seminars during last 5 years (Data Template)	[View File](#)

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

3

File Description	Documents
URL to the research page on HEI website	**Nil**
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	[View File](#)
Any additional information	[View File](#)

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

57

File Description	Documents
Any additional information	[View File](#)
List of research papers by title, author, department, name and year of publication (Data Template)	[View File](#)

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

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 year

8

File Description	Documents
Any additional information	**No File Uploaded**
List books and chapters edited volumes/ books published (Data Template)	[View File](#)

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 year

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 Records of 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, Amrut-chulha 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	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

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

5

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	**No File Uploaded**

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

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

10

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

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 year

700

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

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

24

File Description	Documents
e-copies of related Document	**No File Uploaded**
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

2

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	**No File Uploaded**
Any additional information	[View File](#)
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	[View File](#)

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.

In order to implement the plans and achieve desired goal, the Institute has created adequate infrastructure in terms of State of art computer labs, library, language lab, faculty rooms and class rooms Seminar Halls with Audio Visual Facility. The whole campus has Internet facility with dedicated lease line. The campus has well equipped playground, gymnasium, Hostel and mess. Institute has facilities like Xerox, Stationary store, ATM within the campus. Institute is maintaining conducive environment for the students to achieve their dreams. Additional Cafeteria and Auditorium is available in new building just 20 meters away from our building.

The Institution believes that a healthy teaching-learning environment is one of its biggest assets. A well-equipped library and classrooms with modern teaching aids such as LCD projectors stand in testimony of this. The Institute has sufficient number of class rooms and laboratories than prescribed as per SPPU, Pune. In addition to this, the Institute has also set up new laboratories and facilities as per industry need such as Robotics Lab, Co-ordinate Measuring Machine (CMM), Hybrid Wind/Solar system. Library is a heart of any institute. The library is very spacious and well-furnished to create a pleasant environment for the students. It plays vital role in enhancing the user's knowledge. Library is segmented in Reference Section, Journal Section, Reading Hall, Digital library, etc. The library has collection of Textbooks,

Reference, General and Rare-books, Journals, e-journal and CDs, LED TV etc. The library uses Vriddhi software. The circulation of books is based on Bar- Code. The students have been provided with excellent environment for studies. Daily newspapers, magazines are made available in the reading room. Our library has well demarcated space for book bank, reading section, reference section, and study section, offices for librarian and assistant librarian and e-learning facilities. The institution has subscribed to following e-Journal packages which covers comprehensively all disciplines. IEEE, ASME, ASCE, Science Direct, Pro-Quest, The institution has membership of Automotive Research Association of India (ARAI), Pune, Delnet, Jaykar Library, Pune, Indian Institute of Technology (IIT), Mumbai. The institution has class rooms with ultra-modern learning resources, women's common room and an amphitheatre. Pleasant Class Room is the place where students learn with zeal to achieve their goals. Classrooms are spacious, well ventilated and decorated with colors and curtains. The seating capacity of class room is of 60 students, Well-equipped with mounted LCD projectors, white screens, podium, green boards. In addition to tutorial rooms for a group discussion.

File Description	Documents
Upload any additional information	[View File](View_File)
Paste link for additional information	Nil

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

The Institute has two wide playgrounds having size 50,420m2 (Padmabhushan Vasantdada Patil Krida Sankul, Survey no. 46/1, shown in Fig. 4.1) and 58,980m2 (Survey no.87) for sports for playing outdoor games such as cricket, volley ball, basketball, running track, horse riding and foot-ball. Similarly, the institute also has the facility for indoor games such as chess, table tennis and badminton. The institution has sportsroom and store room. There is provision for providing TA/DA to players for participation in State and National events. There is a provision for Refreshment and Lunch to participants and staffs for various events. Winners are felicitated with mementos/ cash awards. Dias, Mike arrangements, Podium, Banner for felicitation during annual meet are arranged by the institution. Institution provides its playground for organizing events of other universities. National level cricket events are also organized.

The gymnasium has high end machineries and equipments for body building. The Institute has NSS cell under which programmes such as tree plantation "Dandakaranya Abhiyan"; blood donation camp; awareness on "Nirbhay Kanya Abhiyan"; and "Swatcha Bharat Abhiyan" are organized. The Institute has cultural cell/Mudra Club which looks after cultural activities. Under this cell different high end equipments/musical instruments are available. Since 2015-16, every year Institute conducted a cultural event "Medha" to nurture the talent of the students. Under Student Welfare Cell different schemes and programmes are organized such as Earn and Learn, personality development for girls, special guidance scheme, Nirbhay Kanya Abhiyan, disaster management and karate. Special classes on self-defense are organized specially for female students. For communication skills, the University has already incorporated soft skills as a subject for all disciplines. The Institute has a Yoga Club which runs daily 05-06 pm. Some of the faculty members serve as instructors for Yoga Club. National Independence Day and Republic Day are celebrated in the Institute by unfurling the national flag followed by a guard of honor of the Chief Guest, an impressive march past on the beats of the students' band and organization of athletic events.

For encouraging students towards cultural activities, the institute organizers many competitions like dance, song (group and solo), writing, debate, rangoli, flower decoration, poster making, painting etc every year at the time of "Medha" Youth Festival and the winners are felicitated in the annual function or "Medha" function. Students are motivated to participate and unveil their talents on special occasions like Republic Day, Independence Day, Gandhi Jayanti, Swami Vivekananda Jayanti etc. Refreshments are provided to students and staffs during National festival celebration.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

45

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

41.41

File Description	Documents
Upload any additional information	[View File](#)
Upload audited utilization statements	**No File Uploaded**
Upload Details of budget allocation, excluding salary during the year (Data Template	[View File](#)

4.2 - Library as a Learning Resource

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

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 partially automated using library management software 'Ananosoft ERP (V.17.1.)' Since 2006 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.

No

Name of the

ILMS Software

Nature of Automation

Version

Year of Automation

   1.

Ananosoft

Partially

V.17.1

2006

to

March 2018

   1.

Ananosoft

Partially

V.17.1

   1.

Ananosoft

Partially

V.17.1

   1.

Sack Info

Fully

V.2.5.

2018-2019

   1.

Sack Info

Fully

V.2.5.

2019-2020

The library is partially automated with Sack Info 2.5 ERP library management system with barcode technology. The library has rich collection of text book, reference books, handbooks, manuals, rare books, e-books etc. The total number of books available in library is 66735 volumes and 14897 titles as on 16th July 2020 and also library has subscribed 129 Print Journals & 275 E-Journals. It has well designed and maintained stack rooms. The library has covering an area of 1222 square meters. It has well designed and maintained stack rooms. The library database is centrally computerized for accession and renewals for the students and bar codes for the books for easy, secure and quick operation. The library has subscribed e-Journals, research journals in electronic as well as printed formats with various reputed onlinescientific databases such as IEEE, ASME, ASCE and DELNET.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

15

File Description	Documents
Any additional information	View File
Audited statements of accounts	**No File Uploaded**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

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

112

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	**No File Uploaded**

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

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. 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.

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.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

1125

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

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

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

41.8

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

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.

The institution has a number of policies procedures and practices to govern its day to day operation. Adequate staff members are deputed to carry in various functions.

In general the maintenance and cleaning of the classrooms and furniture are done with the efforts on the non-teaching staff and in major cases the college goes for the maintenance contract to the

experts. The institution has adequate number of computer with internet connections. The ICT classrooms and all those computer related facilities are maintained by the technically skilled experts appointed by the management. CCTV camera has been installed at all important places campus including classrooms. The college has sufficient classrooms, seminar hall and staff rooms. Classrooms and seminar hall are provided with sufficient sitting capacity, LCD Projectors. The institute's website is maintained regularly by internal staff member. The gardener has been appointed by the institute who maintains the garden. The maintenance of generator is regularly done by AMC. Electrical and plumbing related maintenance is done with the help of local skilled persons and the expenditure is met within the budget as sanctioned. Library maintenance is done by management by providing a provision of the budget. Library software is maintained by AMC. Disinfecting and keeping the institute clean is done frequently by library staff. The quality of drinking water is tested time-to-time. The fire extinguishers are refilled timely. Overhead water tanks are cleaned by Estate Office periodically The sports department of the college is an active department. The running track is used by students, staff and local community and maintenance of that facility is done with the help of the management. Gymnasium is also utilized by all stakeholders as per the stipulated timing. Maintaining supporting facilities in the campus requires meticulous system. The college has a comprehensive policy to maintain the infrastructure periodically. Hence, the management allocates sufficient funds for the maintenance of the physical academic and support facilities.

Academic Facilities (Lab, Class, DLP, Computer, Equipment etc.)

The institution believes that a healthy teaching-learning environment is one of its biggest assets. A well-equipped library and classrooms with modern teaching aids such as LCD projectors stand in testimony of this. The institution has class rooms with ultra-modern learning resources

The maintenance work is inspected and its need is found out. The request letter is written to principal for the pre sanction of the probable expenditure for the work. The letter is forwarded through respective department head. The letter is taken for review and discussed about need and priority of the said work. Then the simultaneous options for the maintenance work are checked either to do by department level expertise or external agency.(if the work is scheduled to be get done by departmental expertise then the material requirement and purchase is forwarded to Purchase Department and

after purchasing of material it is given to corresponding authority to get work done)

The party is allowed to make the maintenance work, during work the quality parameters are checked continuously. After satisfactory completion of work the party is providing bill, the bill is checked quantity and qualitatively and if the work is completed in all aspects as per requirement the bill is forwarded to the respective authorities for sanction

Computers are monitored and maintained time-to-time. Separate entry register is maintained for the user in the computer lab. All computers and peripherals are checked by the respective technical assistant for any problem. The software updates and ICT tool and internet related problems are resolved from the respective service providers.

Support Facilities (Cleaning, Solar, STP etc.)

The general maintenance of infrastructure is looked after by the estate section of the institute. The institute has a separate garden section which helps to keep the campus green and nature friendly. We have dedicated institute maintenance facility (IMF) which is outsourced. The IMF takes care of right from cleaning of water tank to general cleaning. The annual maintenance of all the equipment's is done through Annual Maintenance Committee. However, periodical, preventive and post-maintenance of equipments are done as per suppliers' service manual. The equipments and services are maintained by the concerned departments with the help of their staff and technicians.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the

Government during the year

2851

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	**No File Uploaded**
Upload any additional information	<u>View File</u>
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	**No File Uploaded**

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

04

File Description	Documents
Upload any additional information	<u>View File</u>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<u>View File</u>

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	A. All of the above

File Description	Documents
Link to Institutional website	**Nil**
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

2825

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

2825

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	**No File Uploaded**
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

472

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

5

File Description	Documents
Upload supporting data for student/alumni	**No File Uploaded**
Any additional information	View File
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

12

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

5.3 - Student Participation and Activities

5.3.1 - 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) during the year

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) during the year.

00

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at univer sity/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

students associations and part of various cell and commies :-

Student's Council, Student Development Cell, Gender Equality, Equal

Opportunity Cell, Anti-Ragging, Student Grievance and Redressal Cell, Cultural, Sport, Technical Activities: Institute organizes technical symposium "Engineering Today" every year consisting of various technical competitions such as Paper Presentation, Technical Quiz, Robot War, Model Making etc. There are various committees for technical events like BAJA, SUPRA, Efficycle etc. Team of students' carryout various tasks at National and International level. Magazine, Extension Activities different activities such as Blood donation Camp, Swachcha Bharat Abhiyan, Yoga day, Tree plantation, Marathi Bhasa Sanvardhan, Flood Donation, Anti-Oxident Awreness Program, Junk Food Campain, and different Jayanti Mohatsav etc. Department Students Associations: The aim of forming Students Association is to involve the students in academic, co-curricular & extracurricular activities.

The Students also part of other commities like Gender Equality Cell, Equal Opportunity Cell, Anti-Ragging, Cultural, Sports, Technical events, NSS, Student Grievance and Professional student's chapter like Institution of Engineers (IE), ISHRAE, Society of Automobile Engineers (SAE), Computer Society of India, BAJA, SUPRA, Efficycle etc.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	[View File](#)

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

0

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

- **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	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

5.4.2 - Alumni contribution during the year (INR in Lakhs)	**A. ? 5Lakhs**

File Description	Documents
Upload any additional information	[View File](#)

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

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	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

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

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	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File]()

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Perspective Plan

Curricular Aspects

UG Education.

Strategy 6: To Establish AVCOE as brand in the field of engineering education:

NAAC accreditation with A++ grade by 2021.

NBA accreditation for all Departments by 2023.

Best College recognition by SPPU by 2020. Best Principal Award by SPPU by 2021.

Achieved goals as on 30/03/2022 –

NAAC Accreditation with A+ grade

Committee visit of NBA is scheduled on 29, 30 April and 1st may 2022 for three programs – 1. Civil 2. ETC 3. IT

Best college award won in academic year 2020-2021 by Savitribai

Phule Pune University, Pune.

To achieve Best College award, report in the similar format as that of NAAC was submitted to SPPU, Pune.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	**Nil**
Upload any additional information	**No File Uploaded**

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.

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 Non-teaching) for their information.

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

File Description	Documents
Paste link for additional information	**Nil**
Link to Organogram of the institution webpage	**Nil**
Upload any additional information	[View File](#)

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning)Document	[View File](#)
Screen shots of user inter faces	[View File](#)
Any additional information	[View File](#)
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	[View File](#)

6.3 - Faculty Empowerment Strategies

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

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.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

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

55

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

05

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

108

File Description	Documents
IQAC report summary	**No File Uploaded**
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	[View File](#)
Details of teachers attending professional development programmes during the year (Data Template)	[View File](#)

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

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	Documents
Paste link for additional information	Nil
Upload any additional information	[View File](#)

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

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:

Rajendra M. Gundecha & Company, Sangamner

There is no adverse remark on the accounts of the institution

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

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

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

2.508

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	View File
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

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.

9. 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	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

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 provided in additional information file.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

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.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

| **6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)** | A. All of the above |

File Description	Documents
Paste web link of Annual reports of Institution	**Nil**
Upload e-copies of the accreditations and certifications	**No File Uploaded**
Upload any additional information	[View File](#)
Upload details of Quality assurance initiatives of the institution (Data Template)	[View File](#)

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 year

Gender equality and sensitization in co-curricular:

Gender equality promotion program organized

Group discussion

Debate competition

Facilities for women in campus:

1. Safety and security: The campus is under CCTV surveillance, exclusive parking for ladies. Biometric attendance in hostels, in time to hostel, rectors, clerks appointed for monitoring attendance. Lady doctor service is provided for health issue with ambulance service.

2. Counseling: In tutor scheme, one faculty for monitoring issues. Buddy scheme is initiated to guide by senior alumni. A separate lady trainer is appointed for physical fitness activities. A professional counselor is appointed for counseling session, available as per schedule.

3. Common Rooms: In the institute, separate boys, girls common rooms are provided at various locations with facilities.Girls common room with all necessary things. 4. Day Care Centre for young children: Amrutvahini School extending the support to provide day care facility to our faculty's children. Toys and proper security measures are provided with maid servant.

5. Any other relevant information/Other initiatives by institutes:
Women's day is celebrated on 8th March 2021 with motivational talk.
Girl's hostel includes separate study room; computing facility,
gymnasiums, outdoor games, cafeteria. Health awareness activities
arranged. Different committees including ICC, woman empowerment cell
are functional.

File Description	Documents
Annual gender sensitization action plan	**Nil**
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	**Nil**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures   Solar energy Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	**No File Uploaded**
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Reduce, Reuse and Recycle policy is emphasized.

Solid waste management

Plastic, papers etc. are sold out to scrap vendor. One side printed papers are reused. The paper wastes are shredded, sold to agency for recycling. Daily garbage and biomass disposed in compost pit. The dry, wet garbage separated food used for biogas plant. Metal scrap is sold out in auction. The old jobs are reworked, reused for student practical.

Liquid waste management / Waste recycling system:

All waste water lines are connected to the septic tank. Waste water generated from Campus which includes sewage from buildings. The microbial culture technology based Sewage Treatment Plant (STP), capacity of 0.4MLD and Installation cost is Rs. 27.94 Lakhs installed impacting reduction in CO2 emission of 0.85*8952=7609.2 Kg.

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

E-waste management

- The major E-waste includes desktop computers; UPSs, laptops, monitors, stabilizers stored properly.
- Reuse of components in projects displayed in corridors for demonstration.
- The e- wastes like computers, keyboards mouse's collected, disposed to the scrap dealer.

Hazardous chemicals and radioactive waste management:

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

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	**No File Uploaded**
Geo tagged photographs of the facilities	*View File*

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	**No File Uploaded**
Any other relevant information	<u>View File</u>

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. **Restricted entry of automobiles** 2. **Use of bicycles/ Battery-powered vehicles** 3. **Pedestrian-friendly pathways** 4. **Ban on use of plastic** 5. **Landscaping**	**A. Any 4 or All of the above**

File Description	Documents
Geo tagged photos / videos of the facilities	**No File Uploaded**
Various policy documents / decisions circulated for implementation	**No File Uploaded**
Any other relevant documents	<u>View File</u>

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<u>View File</u>
Certification by the auditing agency	**No File Uploaded**
Certificates of the awards received	**No File Uploaded**
Any other relevant information	<u>View File</u>

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts 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	**A. Any 4 or all of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	**No File Uploaded**
Policy documents and information brochures on the support to be provided	**No File Uploaded**
Details of the Software procured for providing the assistance	**No File Uploaded**
Any other relevant information	<u>View File</u>

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 200 words).

Tolerance and harmony towards cultural and communal diversities:

- **All important days like Independence Day, Republic day are celebrated every year. The cultural programs are conducted on Independence Day, Republic day.**

- 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 always supports for holistic culture in the campus.

- The institute has residential facility in campus with hostels.
- Every year Basantpanchami is celebrated.
- At present, the students from J&K are admitted, accommodated under PMSSS quota.
- Majority of faculties are from Maharashtra, creates well comprehensive culture among the faculties.
- Few faculties are from Bihar, Jharkhand residing in college staff quarters.
- Marathi Language activities are conducted.

Tolerance and harmony towards socioeconomic diversities:

- The Earn and Learn Scheme is effectively implemented for EBC students.
- The institute implements the Government schemes and scholarships.
- The institute introduced AMS for students having more than 9.5 SGPA.
- The institute allows students to pay fees in installment.
- The dress code is adopted to avoid social and economic disparity.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	*View File*
Any other relevant information	*View File*

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Activities for constitutional obligations: values

- Morning schedule starts National anthem and end with National Song in the evening; centrally.
- 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.
- 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.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	Nil
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers,	A. All of the above

administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
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	**No File Uploaded**
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Institution celebrates commemorative days, events and festivals by central AVCOE Cultural club.

- **Commemorative days: 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. Distinguished speaker from society is called for speech on "Role of Teachers in Society". The Engineers day is also celebrated**
- **Festivals: The tradition of celebrating Ganesh Festival, Khandenavami, festival is continued.**
- **Students participate in 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.**
- **Many other events conducted under NSS like Street Plays focusing on Social Causes.**

- Departmental Associations events include Skits on various occasions: Engineer's Day, Teacher's Day, Guru-Pournima, Fresher Party and Sendoff.
- Marathi language activities celebrated, Poem writing competition, debate are organized.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	**No File Uploaded**
Geo tagged photographs of some of the events	[View File](#)
Any other relevant information	[View File](#)

7.2 - Best Practices

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

Best Practice-1:

1. Title: Up gradation of student's knowledge and skills through Webinars

2. Objectives of the Practice

2.1 To impart topics on recent trends in technology for students through webinars during pandemic.

2.2 To create the interest among the students and inculcate the skills required by the industry.

3. The Context

The Covid-19 pandemic had created panic situation for teaching learning process among the students and faculty. The ICT technology has been acquainted by most of the students, staff and faculties during first lockdown.

4. The Practice

After the lockdown the institute had adopted policy of online teaching- learning however there was the need of imparting knowledge and skills on recent trends in technology for students. The faculties from reputed Institutes, Industry have been identified and

webinars have been organized to bridge the gap between academics and industry especially in pandemic.

5. Evidence of Success

The department wise webinars conducted during the pandemic is given below:

E&TC

Elex

Elect

Comp

IT

Civil

Mech

MBA

05

08

06

11

12

09

15

07

The online feedback obtained after the webinar from the students and analyzed. It is found that almost all webinars found fruitful for the students and they had expressed through feedback. The students upgraded their knowledge and skills and certificate also provided to students for mentioning in resume.

6. Problems Encountered and Resources Required

During the pandemic, there was no any requirement of additional resources for conducting webinars however students staying at remote places faced problem of internet connectivity. Attention monitoring was the issue in online learning.

7. Notes (Optional)

The experts from reputed institutes and industry had interacted to students and motivation built up to learn the new things in their domain. Students also completed online certifications from Courseera, NPTEL, Unacademy, Udemy.

Best Practice-2:

1. Title: Amrut Madat Nidhee: Financial Help for Faculties and Staff during emergencies.

2. Objectives of the Practice

2.1 To support faculties and staff financially during emergency i.e. hospitalization due to accidents/medical reasons.

2.2 To support family members of faculties and staff financially during in case of any kind of death.

3. The Context

The human resource for teaching and learning is very important however, life is not eternal. There may be medical/accidental emergencies as well as probability sudden death. Covid-19 pandemic had created panic situation for the faculties and staff.

4. The Practice

Amrut Madat Nidhi has been planned by the collective participation with the aim of providing immediate help as a social commitment for the benefit of all the employees of Amrutvahini Engineering College.

Rules for the Scheme: All employees contribution is 100/- per month. Also, as per the decision of the college management, 25% of the total annual accumulated amount as a social commitment will be transferred from the college to the aid fund account in the nectar

fund.

1. This assistance will be given to each employee only once in his tenure.

2. This assistance is equal to 50% of the bill amount or Rs. 50,000 whichever is less.

3. Assistance in case of natural or accidental death during the tenure of the employee is Rs.1 Lakh will be given.

4. This relief fund will not be given for frequent ailments like fever, cough, typhoid etc. but if the illness becomes more severe, the committee member will have the authority to provide assistance.

5. Help will only be for accidents and serious illnesses. The decision of the Board of Directors in this case will be final.

6. The employee seeking help will need to submit an attested Xerox of the hospital bill.

7. This relief fund is raised by the employee for the employee so does not bring false or unrealistic bills. In case of such suspicion, some members of the Board of Directors will go to the hospital and verify the matter and then help will be given.

8. Employees who retire without any assistance will be reimbursed the amount deposited in their name at the time of retirement (without interest).

9. Deposits in his name will be refunded to the employee who leaves the job or is fired by the organization before the retirement age.

5. Evidence of Success

Three staff have been expired during Jan 2021 to Dec 2021 and the Amount of Rs. 1 Lakh each given to their family members.

6. Problems Encountered and Resources Required

During the Pandemic situation many cases of COVID-19 identified however it was not possible to help financially every faculty due to unpredicted number of COVID-19 faculty/staff patients.

7. Notes (Optional)

The mediclaim policy for each faculty/staff also initiated however most of the faculties were having their own mediclaim policies.

File Description	Documents
Best practices in the Institutional website	**Nil**
Any other relevant information	**Nil**

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Best Engineering College award (Rural-Professional) by Savitribai Phule Pune University:

Best Engineering College Award by Savitribai Phule Pune University (2020-21) received to the Institute among 307 recognized research institutes and 612 affiliated colleges offering graduate and under-graduate courses. Earlier, the award was received in 2009-10. The Best College award is given to the institute in affiliated colleges from SP Pune University every year on foundation day ceremony on 10th February..

- **AVCOE Sangamner established in 1983 under the leadership of Hon. Late. Bhausaheb Thorat and progressing under the guidance of Hon. Balasaheb Thorat.**
- **It is spread over 15.6 acres of ample greenery,**
- **Three times accreditation by NBA, New Delhi, and Graded 'A+' by NACC Government of India.**
- **International Academic Accreditation ISO 9001:2015 by TUV SUD.**
- **It provides 100% placement assistance to its students through value added courses, foreign langauges (Japanese , German) and Training.**
- **Recently all branches of institute are permanently affiliated to SP Pune University.**
- **It boasts state of art IT centre with 100 mbps Wi-Fi Internet Facility.**
- **It has a huge library that accommodates 66,735 books, 129 print journals and 275 e-journals.**
- **Imparting excellence driven engineering education that builds the future of Engineers and Entrepreneurs.**

File Description	Documents
Appropriate web in the Institutional website	**No File Uploaded**
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

- **Preparation for participation in NIRF, CSR, ranking.**
- **Planning and execution for NBA.**
- **Segregations and application of Research and Development activities in accordance to UG/PG. Publication awareness and orientation for academic betterment of faculty.**
- **Procurement of funds for Faculty development programme under NAAC.**
- **LMC to be adopted effectively.**
- **MOU's to be signed and retain active for functional purpose.**
- **Internal as well as external Examinations to be carried out. GATE and competitive exam Coaching and orientation to develop culture.**
- **Plan to apply for entrance examination conduction to felicitate admissions of high JEE/MHCET merit students and provide a curricular and extracurricular campus ambiance.**
- **Achievement and measurement of Programme outcomes and course objectives.**
- **Welfare initiative for Staff : "Amrutmadat Nidhi"**
- **Enhancement of relationship with Alumina.**
- **To motivate students for start-ups and empowering self-employment and**
- **Introduction and planning for value addition, technical and Soft Skills development courses using AVCOE's infrastructure.**
- **Services and consultancies offered such as Offer lab. Facilities, projects and product development for other institutes and industry.**
- **To increase numbers of student chapters and membership in various external technical agency / society.**
- **Maintenance of campus reformation: Clean campus drive, Sewage water treatment plant, Tree Plantation, Rain water Harvesting.**
- **Under QIP –BCUD workshop, seminar at national international and state level.**