



YEARLY STATUS REPORT - 2021-2022

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 Telecomm unication 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 [View File](#)

9. No. of IQAC meetings held during the year **3**

- 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 Programme for awareness and admission planning, Promotional activities.

IQAC proposed and 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. Having reviews and feedbacks for the same.

Application and preparation for NBA certification for E&TC, IT and Civil Programme.

Change methodology as to continue with classroom teaching after COVID pandemic.

LMC proposed to be updated for academic and extracurricular activities planning and monitoring and institute policy restructuring.

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
Preparation for participation in NIRF, CSR, ranks.	NIRF, CSR ranking applied.
Planning and execution for NBA.	NBA Accreditation Process Completed in the Year 2022-23 for IT, E&TC & CIVIL respectively.
Segregations and application of Research and Development activities in accordance to UG/PG.	In accordance with UG/PG research and Development activities planned and activated.
Publication awareness and orientation for academic betterment of faculty.	Departmental reviews arranged and motivated with monitory and non-monitory initiatives.
Procurement of funds for Faculty development programme under NAAC.	In process for application and will be applied in 2022-23.
LMC to be adopted effectively.	LMC is now restructured.
MOU's to be signed and retain active for functional purpose.	As in lined processed and will be followed per year.
GATE and competitive exam Coaching and orientation to develop culture.	CDC is in application and implementation for the same.
Plan to apply for entrance examination conduction to felicitate admissions of high JEE/MHCET merit students and	Programme for awareness and admission planning, Promotional activities are in line.

provide a curricular and extracurricular campus ambiance.	
Achievement and measurement of Programme outcomes and course objectives	At end of the programme evaluated.
Welfare initiative for Staff: "Amrutmadat Nidhi" : :	Collection of donations from alumina and deployment for the medical need only to teaching and nonteaching only.
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.	Through EDP cell activities were planned and conducted for VALU ADDITION AND SOFT SKILL DEVELOPMENT of student.
Services and consultancies offered.	Civil department is active in Consultancies and Computer department and Workshop is in Services.
To increase numbers of student chapters and membership in various external technical agency / society.	In line with process to increase numbers and benefiterers.
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.	QIP skipped but on institutional level all activities initiated. Under QIP will be applied in 2022-23.
Student Satisfaction survey	Survey did by every department as per Template Available in ERP, Accountability with ERP Coordinator

13. Whether the AQAR was placed before statutory body?

Yes

- Name of the statutory body

Name	Date of meeting(s)
Governing Council (GC)	25/12/2022

14. Whether institutional data submitted to AISHE

Part A

Data of the Institution

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<ul style="list-style-type: none"> Name of the statutory body 	
Name	Date of meeting(s)
Governing Council (GC)	25/12/2022
14. Whether institutional data submitted to AISHE	
Year	Date of Submission
2021-22	27/01/2022
15. Multidisciplinary / interdisciplinary	
<p>As per SPPU guideline / circular any candidate having degree or diploma in engineering can do graduation in any other branch of engineering. As AVCOE Sangamner is affiliated to SPPU Pune, Multidisciplinary/Interdisciplinary courses implemented by SPPU Pune. Some of the final year project's are Interdisciplinary.</p>	
16. Academic bank of credits (ABC):	
<p>AVCOE Sangamner is affiliated to SPPU Pune. SPPU Pune has already registered under ABC. As per the guidelines of SPPU Pune our students have started registering under ABC.</p> <p>Curricular is defined and designed by SPPU Pune. Hence, as per the curriculum of SPPU Pune some of the faculty members have written text book and reference books. Still sotar there is no collaboration with any foreign institution for awarded of joint degree.</p>	
17. Skill development:	
<p>No vocational courses run by the institution. But three year before department of Mechanical Engineering had applied for few vocational courses to AICTE. Reply is still awaited.</p> <p>SPPU Pune has introduced induction programme for first year engineering students. Under this programme, it is mandatory for the institution to conduct value based programme for first year engineering students. Various guest lectures on yoga, Adhyatma, humanity, life skill, etc.. are arranged under this programme.</p> <p>Some Faculty and students are involved in UMA and UBA. Under this</p>	

some civil works are carried out in nearby villages.

AVCOE Sangamner is affiliated to SPPU Pune. SPPU Pune has already introduced credit based syllabus. Third year engineering students are undergoing internship at the end of 1st/2nd semester, which helps enhancing hands on experience of working in an industry.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Presently no course/subject is taught in any Indian language as the syllabus is designed by the SPPU Pune in English only. However, if demanded by the students, faculties are advised to explain certain points in local language i.e. Marathi. One of the faculty Dr. Bhandane is selected by to review a book in electrical engineering written in Marathi.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Institution has already adotted OBE system since 2017. Under this

I) CO PO mapping is done.

II) Attainment of every course of every programme is calculated.

III) Industrial visits are arranged.

IV) Guest lectures are conducted for value based education, professional courses on andabove the syllabus and to cover bridging the gap.

V) Mock in-sem and prelim exams are conducted for practice of students.

VI) Regular assignments and assignments for failed students (in mock in-sem and prelim exam) are given.

VII) Continuous assessment of lab work is done.

20.Distance education/online education:

During covid online lectures and practical's were conducted. Virtual labs were conducted. Many staff and students have taken

up online NPTEL courses. A Smart classroom is available in the department of Mechanical Engineering.

Extended Profile

1.Programme

1.1	541
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2.Student

2.1	3379
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	427
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	View File

2.3	948
Number of outgoing/ final year students during the year	

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	155
File Description	Documents
Data Template	View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	51
4.2 Total expenditure excluding salary during the year (INR in lakhs)	605.96lakh
4.3 Total number of computers on campus for academic purposes	1198

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 HOD's and finalize the academic calendar considering the institute events. All departments prepare their academic calendar.
- 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.

- Time tables are prepared, preserved and displayed with prior approval of HOD and Principal. Course file, Lab manual, theory and practical teaching plans are prepared by faculty of the respective subject allotted before commencement of semester.
- Report of syllabus coverage, monthly class attendance and test marks are submitted to Dean Academics, Principal at the end of every month by HOD.
- Academic progress, grievances, feedback from stakeholders are taken and conveyed to Principal for strengthening curriculum delivery and overall improvement.
- 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)

- According to SPPU's directives, academic calendars are prepared at institute level. Based on this calendar, departments prepare their own calendars.
- Department monitoring committees monitor activities to ensure smooth lectures and practical sessions. Each student's attendance is recorded daily in Sackinfo ERP software. Absences of students are communicated to parents through SMS on a regular basis.
- Class tests, assignments, seminars, tutorials, guest lectures, industry visits, value-added courses, and other activities are scheduled according to the academic calendar. 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.

- For both slow and advanced learners, the learning process is organised according to a schedule.
- 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.

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 Courses Assessment /evaluation process of the affiliating University

A. All of the above

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

1456

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 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 etc

- Environmental Engineering: This course highlights the aspects related to air pollution, noise pollution, low cost waste water treatment systems.
- Geotechnical Engineering, Energy Audit and Management, Material Science.

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

- Industrial and Technology Management, Information and Cyber Security, Road Safety Management

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

- Total Quality Management and Management Information System.
- Gender equality issues as part of the curriculum is covered in co-curricular activities.

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.	No File Uploaded

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

78

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
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

2645

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
Teachers
Employers
Alumni

A. All of the above

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	No File Uploaded
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

655

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

543

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 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 Teacher Feedback 10
 4. Activity Participation 25

- The student securing marks below 40% are 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 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
3379	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 where in faculty plays a role of facilitator.

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

1. Industry Internships

Students have undergone internships during academic year 2021-22 in a virtual / online mode due to pandemic situation. These Internships have improved their problem solving skills as students worked on small projects and learned industrial practices.

2. Project Based Learning

Final year projects and Project Based Learning 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 volunteers have participated in various physical as well as virtual events during 2021-22, which enhanced their experiential learning.

4. Participation in Hackathons, SAE Competitions etc.

A team from the institute received a prize of 1 Lakh Rs. in academic year 2021-22 for their project in SPPU HACKATHON competition. A team from the institute received a First Prize in

the SAE INDIA-TIFAN 2021 final round. 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 PPT, animations, videos.
- Learning management system (Moodle) is used to provide assignments and for sharing the learning resources.
- Faculties use various e-learning resources like Swayam / NPTEL MOOC platforms.
- 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.
- 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.

File Description	Documents
Upload any additional information	No File Uploaded
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

160

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	View File

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

41

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

2150

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. 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	No File Uploaded
Link for additional information	Nil

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

External examination related grievances-

External (University) examination grievances are addressed by examination section as per the process laid down by the SPPU. Institute follows a time bound, efficient and transparent process for the examination related grievances of the students. To bring transparency in external examination related grievances, a separate hoarding is displayed at examination section detailing the processes to be followed for grievance redressal. A College Exam Officer (CEO) is appointed by the institute for the smooth conduction of University exams and for addressing exam related grievances as per the University rules.

Internal examination related grievances-

- Unit Tests and Preliminary Examinations-

Institute conducts Unit tests and preliminary examination and answer sheets are evaluated in front of the students and the grievances are resolved.

- Term-work Evaluation-

Term-work marks are given based on continuous evaluation process based on the performance of the students during the course of semester. Students are informed in advance the rubrics of continuous evaluation. Marks distribution is done based on evaluation of assignments, performance in internal Unit Tests, record in practical journals, performance of experiments and internal viva-voce. Grievances raised by the students regarding term-work marks are resolved collectively by subject teacher and HOD.

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 (POs) and course outcomes (CO) 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:

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.

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**

884

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)

23.06863

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

12

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

02

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

The Institute has given an opportunity for rural graduate and post-graduate students to explore new ideas and share information with others who share their interests.

The Research and Development Cell inspires in students a research culture and promotes continuous excellence in engineering education.

With this well-defined framework, students and faculty members attend seminars and workshops, give papers, compete and exhibit, and register for IPR. This results in the concerned person's view broadening as a result of exposure to the outside world and the study of pressing concerns in such areas. The end result of this process is that fresh and inventive ideas are conveyed to subsequent batches, their counterparts' mindsets change, and juniors are guided. Faculty and students with higher intellectual levels serve as lighthouses, illuminating others, resulting in overall quality improvement, greater career prospects, and overall expansion 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

22

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

108

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

18

File Description	Documents
Any additional information	View File
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 development of social awareness among students and faculty members is vital as part of extension operations. The Institute takes social responsibility by promoting various activities such as the cleanliness awareness program, the Swatchh Sarvekshan campaign for Sangamner City, and so on for the purpose of extending activities in the neighborhood community and alerting students to social issues for their overall development. Thus, through its focused efforts in this field, the institute constantly takes proactive actions to contribute to the social uplift of society and rural people.

The following are the case studies on extension activities carried out in the neighborhood community, for their holistic development.

Sr. No. Description 1 Social Awareness Program 2 Development Of Technological Solutions 3 Education And Service' To The Community - Swachha Bharat 4 NSS Activity :- Blood Donation Camp 5 NSS Activity :- World AIDS Day 6 NSS Activity :- Yoga day 7 NSS Activity :- Tree plantation

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

02

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	No File Uploaded
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

756

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

172

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

07

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.

The Institute has created adequate infrastructure in terms of State of art computer labs, library, language lab, classrooms and seminar halls with audio visual facility. The whole campus has

Internet facility with dedicated lease line. The campus has well equipped playground, gymnasium, hostel, mess, women's common room and an amphitheatre. Institute has facilities like Xerox, Stationary store, ATM within the campus.

Laboratories are well equipped and charts, models and cutsections are displayed in laboratories for better understanding. The Institute has excellence centers like E-Yantra Robotics Lab, NVIDIA-CUDA learning center, CISCO Networking Academy, REDHAT Academy Centre etc. Modern machineries like 3D printer, Co-ordinate Measuring Machine, Hybrid Wind/Solar system etc are also added in the laboratories to facilitate advance learning and research. Classrooms and seminar halls are well furnished, ventilated, illuminated and equipped with mounted LCD projectors, white screens, podium, green boards. The ICT tools and audio-video facilities further strengthens the infrastructure of the institute. The Library is segmented in Reference Section, Journal Section, Reading Hall, Digital library, etc. The library has collection of Textbooks, Reference, Journals, e-Journals, CDs, LED TV etc. The institution has membership of Automotive Research Association of India, Delnet, Jaykar Library, Indian Institute of Technology, Mumbai.

File Description	Documents
Upload any additional information	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 Padmabhushan Vasantdada Patil Krida Sankul and Medha Ground having size 50,420 sq.m and 58,980 sq.m. 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. Institution provides its playground for organizing university, district and state level events.

The gymnasium has high end machineries and equipments for body building. 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. The institute organizes many competitions like dance, song (group and solo), writing, debate, rangoli, flower decoration, poster making, painting etc every year. Amrut kalamanch and Amphitheatre; with 1000 and 2500 seating capacity respectively, Conference halls (Dronagiri- 350 capacity, JRD Tata Hall-150 capacity) equipped with proper sound and light systems. Special classes on selfdefense are organized specially for female students. The Institute has a Yoga Club which runs daily 05-06 pm. Some of the faculty members serve as instructors for Yoga Club. Institute celebrates 21 June, the international Yoga day on large scale. 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.

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.

44

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)

25.85

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
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 center in Engineering, Science & Technology and related areas. The library is partially automated using library management software 'Sack Info ERP Software (V.2.5)' with barcode technology since 2018.

The library has rich collection of text book, reference books, handbooks, manuals, rare books, e-books etc. A total of 67185 volumes, 14983 titles and 39,300 + e-books are available in the library as on 31st May 2022. The library subscribes to 109 print journals and 270 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 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 online scientific 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)

19.39

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

228

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.

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.

1. **Network Security:** The college campus has completely switched, high availability network. Network is secured by firewall integrated in router. Additionally, Cyberoam UTM is available with access control.
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 is purchased for individual departments as per their curriculum and research requirement.
3. **Open-Source Resources:** Institute strongly promote open-source software, tools and applications such as JDK, Star UML, Eclipse, G++, gcc, SSH, My-sql server and client, Scilab, Octave etc. for supporting computers assisted learning. Currently institute supports Linux operating system.
4. **Green Computing:** Institute strives hard to reduce the carbon footprint. Most of the administrative activities pertaining to faculty, staff and student are handled through the ERP. All the news feeds are displayed through LED TVs.

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

4.3.2 - Number of Computers

1198

File Description	Documents
Upload any additional information	View File
List of Computers	No File Uploaded

4.3.3 - Bandwidth of internet connection in A. ? 50MBPS

the Institution

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	No File Uploaded

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)**

95.9

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 classrooms are well-equipped with modern teaching tools, such as LCD projectors. The maintenance and cleaning of the classrooms and furniture are done with the efforts of non-teaching staff and in major cases the college employs a maintenance contract to the experts. A request letter is sent to the principal to pre-approve the expected expenditure for the work. Quality control is conducted during the process and the bill is checked and approved before being sent to the relevant authorities. All computers and peripherals are also inspected by the technical assistant for any issues. The institute's website is updated and maintained internally. Library software is maintained by AMC. CCTV camera has been installed at all important places in campus including classrooms.

Electrical, plumbing and generator maintenance is done with the help of local skilled persons. The quality of drinking water is tested regularly. The fire extinguishers are refilled timely. The running track and gym are open to all stakeholders, and the management provides adequate funds for the upkeep of sports facilities. The general maintenance of infrastructure is looked after by the estate section. However, periodical, preventive and post-maintenance of equipments are done through Annual Maintenance Committee as per suppliers' service manual.

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

2807

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

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

06

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

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	https://www.avcoe.org
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

1371

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

1371

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

A. All of the above

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

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
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

748

File Description	Documents
Self-attested list of students placed	No File Uploaded
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

1

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

03

File Description	Documents
Upload supporting data for the same	No File Uploaded
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.

06

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 university/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)

As SPPU under student development welfare cell, students take active participation in various committees such as Student's Council, Student Development Cell, Gender Equality, Equal Opportunity Cell, Anti-Ragging, Student Grievance and Redressal Cell, Cultural, Sport, Technical Activities.

There are various committees for technical events like BAJA, SUPRA, Efficycle etc. Team of students' carryout various tasks at National and International level.

Extension Activities - different activities such as Blood donation Camp, Swachha Bharat Abhiyan, Yoga day, Tree plantation, Marathi Bhasa Sanvardhan, Flood Donation, Anti-Oxidant Awareness 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 committees like 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

14

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

- An Alumni Association registered 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.
- 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. 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.

- The alumni of the institute supports the students for financial help during their project work, or any competitions.
- Alumni voluntarily involve in mentorship for current first year and second year students of institute through Buddy scheme a unique feature.. He inspires and motivates the student to infuse confidence level by quoting his journey, deep career to achieve the excellence. In this scheme the alumni 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 A. ? 5Lakhs (INR in Lakhs)

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

- **Vision**

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

- **Mission**

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

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

- Governance
- 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.
- Academic Planning: Semester wise academic calendar which includes all curricular, co-curricular, extracurricular activities by following University academic calendar.
- Financial Planning: Budget required in academic year as per perspective plan.

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.

Decentralization- ISO, etc.

Participative Management:-Involvement of stakeholders (GC, CDC, AAB (Academic advisory board), IQAC, DAB (Department Advisory board), DCC (Department Core 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.

- Students Council
- Students Association

- Cultural and sport and other activities.

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 2019 -2029

1. External Environment
2. UG Environment
3. PG Education and Research.

(a) Goal: To start Automation and Robotics and Electronics and Computer Department

- Strategies and Tasks :

Strategy 5: Introduce core and emerging engineering courses:

Automation and robotics department instead of production engineering under Mechanical BoS and Electronics and Computer Engineering instead of Electronics Engineering under Electronics BoS is started from academic year 2021-22.

Mechatronics and AI & DS in Information Technology by 2022 -2023 and emerging disciplines in electronics and Telecommunication, Electrical and power within span of five years.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
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.

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	No File Uploaded
Screen shots of user inter faces	No File Uploaded
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

All staff that is eligible as per the Staffs' Provident Fund legislation are enrolled as members to EPF Scheme. Institute provides gratuity scheme, Group Medical Insurance, for staff. All the benefits at superannuation are extended to all staff members. Summer and Winter Vacations of 70 days, 12 days Casual Leave per year. 10 days Medical Leave per year for approved faculty and 9 days of special leaves for ad-hoc faculty members. 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. 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. Tuition fees collected in Equal Monthly Installments (EMI) for wards of the staff. Institute provides uniforms to non-teaching staff 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

03

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

04

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

113

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 management evaluates teachers based on teaching, R&D 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 used of by staff member for this purpose. The concerned HOD gives their remarks on the performance of the faculty member. 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 for academic performances, R&D, consultancy, IPR, 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. 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 GC and CDC, 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 CA as internal and external auditors who audit the accounts annually. After the audit, the report is sent to the management for review.

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.

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

03-09-2022

There is no adverse remark on the accounts of the institution

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

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)

00

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)	No File Uploaded

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

Budget allocation -

1. 10% of total income is taken out as corpus fund.
2. 70% of total expected income is allocated for staff salary
3. 20% of total expected income is budgeted in following proportion
 - o Library 5%
 - o Infrastructure built up -10%
 - o Laboratory equipment - 25%
 - o Laboratory Consumables - 5%
 - o Maintenance and Spares - 30%
 - o Research and Dev. - 3%
 - o Travel and Training - 2%

- Miscellaneous-10%
 - Others - 10%
4. 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.
 5. 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.
 6. 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.
 7. 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.

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. In order to ensure the quality of the educational system, including the teaching and learning process, IQAC holds regular meetings. The IQAC and its constituent ISO cell undertake various quality assurance initiatives. IQAC conducts academic audit covering all the important aspects of teaching-learning process. A separate audit was conducted to assess quality of course file and personal file contents of individual faculty. Continuous improvement is achieved through periodic academic and administrative audits (AAA) 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 its constituent ISO cell are provided in additional

information file. The following activities are conducted by IQAC to improve the standards of education at the institution.

- Organizes induction programme for FE student with FE coordinator
- Coordinating of social activities through active NSS unit of the institute
- Promote research and innovation culture in the institute through R&D cell
- Organize faculty development programs (FDP)
- Preparation for NBA.

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 and administrative audits (AAA).

Various reforms and quality initiatives undertaken by IQAC are elaborated:

1. Academic calendar and adherence with academic calendar
2. Enhancement in the usage of innovative pedagogy techniques and ICT tools
3. Implementation of Outcome Based Education (OBE)
4. Strengthening of the ERP system
5. Feedback system for evaluation of faculty from students
6. Students' result analysis
7. Adopting a revised ISO 9001-2015 Quality Management System (QMS)
8. Review of all the academic and administrative processes through academic and administrative audits conducted through ISO
9. The Institute always believes in continual improvement and strive to get a quality assessment by various agencies. To testimony this, Institute programs are accredited four times

by the National Board of Accreditation (NBA), New Delhi.

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 2022 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	https://www.avcoe.org/NAAC/AQAR2021-22/CR7/7.1.1/7.1.1%20Gener%20Equality%20Link%20for%20annual%20gender%20sensitization%20action%20plan.pdf
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/

A. 4 or All of the above

power efficient equipment

File Description	Documents
Geo tagged Photographs	View File
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

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 $0.85 \times 8952 = 7609.2$ 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	View File
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	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: **A. Any 4 or All of the above**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

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

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

7.1.6.1 - The institutional environment and **A. Any 4 or all of the above**

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

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

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	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

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)	No File Uploaded
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 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, administrators and other staff and conducts periodic programmes in this regard. The A. All of the above

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	View File
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.

1. Title of the Practice

"Professional Skills Development for better career opportunities."

2. Goal

- To groom the students as per the requirements of industry.
- Give focused training to the students to increase the employability.

3. The Context

Students lagging in professional skill in spite of having good technical, academic knowledge. Corporate were not able to give sufficient time for skill development.

4. The Practice

Institute offering various soft skill programs to students of all years. Department, Professional trainers are putting efforts for upgrading the skill sets. Aptitude Training is specially conducted for BE Students. Company specific training is done, in which the exam pattern and most likely questions are taken by third party agency.

5. Evidence of Success:

Number of students trained for various companies are 1222 in academic year 2021-22 and total students are placed 748 in industries/organizations. This count is increasing every year as institute putting more efforts for training conduction.

6. Problems Encountered and Resources Required

Students come from different culture and rural areas needs enhancement of communication skills. Additional man power for coordinating department level activities was necessary for proper coordination, achieving long term goals.

7. Notes: NA

Best Practice_2 : refer additional information

Link Here:<https://www.avcoe.org/NAAC/AQAR2021-22/CR7/7.2%20Best%20Practices%20upload.docx>

File Description	Documents
Best practices in the Institutional website	Nil
Any other relevant information	https://www.avcoe.org/NAAC/AQAR2021-22/CR7/7.2%20Best%20Practices%20upload.docx

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

The campus placements of the institute have marched the excellent count of 748 in academic year 2021-22. The career development cell (CDC) is implementing different schemes such as trainings (Company Specific/ General), Competitive examinations guidance, Buddy scheme etc. Total 55 companies visited institute for campus placements in which more than 100 placements are achieved in those companies from the institute. In 2021-22, total 38 students from Civil Engineering has recruited in Maharashtra Public Service Commission (MPSC)- Civil Services Examination.

Placements Record:

Unique features of the Institute:

- AVCOE Sangamner established in 1983 under the leadership and processing under the guidance of Hon. Late. Bhausahab Thorat .
- It is spread over 15.6 acres of ample greenery,
- Four 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 languages (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.

Imparting excellence driven engineering education that builds the future of Engineers Entrepreneurs.

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 HOD's and finalize the academic calendar considering the institute events. All departments prepare their academic calendar.
- 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.
- Time tables are prepared, preserved and displayed with prior approval of HOD and Principal. Course file, Lab manual, theory and practical teaching plans are prepared by faculty of the respective subject allotted before commencement of semester.
- Report of syllabus coverage, monthly class attendance and test marks are submitted to Dean Academics, Principal at the end of every month by HOD.
- Academic progress, grievances, feedback from stakeholders are taken and conveyed to Principal for strengthening curriculum delivery and overall improvement.
- 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)

- According to SPPU's directives, academic calendars are prepared at institute level. Based on this calendar, departments prepare their own calendars.
- Department monitoring committees monitor activities to ensure smooth lectures and practical sessions. Each student's attendance is recorded daily in Sackinfo ERP software. Absences of students are communicated to parents through SMS on a regular basis.
- Class tests, assignments, seminars, tutorials, guest lectures, industry visits, value-added courses, and other activities are scheduled according to the academic calendar. 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.
- For both slow and advanced learners, the learning process is organised according to a schedule.
- 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.

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 Courses Assessment /evaluation process of the affiliating University

A. All of the above

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

1456

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 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 etc
- Environmental Engineering: This course highlights the aspects related to air pollution, noise pollution, low cost waste water treatment systems.
- Geotechnical Engineering, Energy Audit and Management, Material Science.

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

- Industrial and Technology Management, Information and Cyber Security, Road Safety Management

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

- Total Quality Management and Management Information System.
- Gender equality issues as part of the curriculum is covered in co-curricular activities.

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.	No File Uploaded

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

78

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
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

2645

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

A. All of the above

institution from the following stakeholders Students 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	No File Uploaded
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	
655	
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	
543	

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 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 Teacher Feedback 10
 4. Activity Participation 25

- The student securing marks below 40% are 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 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
3379	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 where in faculty plays a role of facilitator.

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

1. Industry Internships

Students have undergone internships during academic year 2021-22 in a virtual / online mode due to pandemic situation. These Internships have improved their problem solving skills as students worked on small projects and learned industrial practices.

2. Project Based Learning

Final year projects and Project Based Learning 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 volunteers have participated in various physical as well as virtual events during 2021-22, which enhanced their experiential learning.

4. Participation in Hackathons, SAE Competitions etc.

A team from the institute received a prize of 1 Lakh Rs. in academic year 2021-22 for their project in SPPU HACKATHON competition. A team from the institute received a First Prize in the SAE INDIA-TIFAN 2021 final round. 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 PPT, animations, videos.
- Learning management system (Moodle) is used to provide assignments and for sharing the learning resources.
- Faculties use various e-learning resources like Swayam / NPTEL MOOC platforms.

- 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.
- 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.

File Description	Documents
Upload any additional information	No File Uploaded
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

160

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	View File

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

41

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

2150

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. 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	No File Uploaded
Link for additional information	Nil

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

External examination related grievances-

External (University) examination grievances are addressed by examination section as per the process laid down by the SPPU. Institute follows a time bound, efficient and transparent process for the examination related grievances of the students.

To bring transparency in external examination related grievances, a separate hoarding is displayed at examination section detailing the processes to be followed for grievance redressal. A College Exam Officer (CEO) is appointed by the institute for the smooth conduction of University exams and for addressing exam related grievances as per the University rules.

Internal examination related grievances-

- Unit Tests and Preliminary Examinations-

Institute conducts Unit tests and preliminary examination and answer sheets are evaluated in front of the students and the grievances are resolved.

- Term-work Evaluation-

Term-work marks are given based on continuous evaluation process based on the performance of the students during the course of semester. Students are informed in advance the rubrics of continuous evaluation. Marks distribution is done based on evaluation of assignments, performance in internal Unit Tests, record in practical journals, performance of experiments and internal viva-voce. Grievances raised by the students regarding term-work marks are resolved collectively by subject teacher and HOD.

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 (POs) and course outcomes (CO) 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:

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.

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

884	
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/agar.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)	
23.06863	
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	
12	

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

02

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

The Institute has given an opportunity for rural graduate and post-graduate students to explore new ideas and share information with others who share their interests.

The Research and Development Cell inspires in students a research culture and promotes continuous excellence in engineering education.

With this well-defined framework, students and faculty members attend seminars and workshops, give papers, compete and exhibit, and register for IPR. This results in the concerned person's view broadening as a result of exposure to the outside world and the study of pressing concerns in such areas. The end result of this process is that fresh and inventive ideas are conveyed to subsequent batches, their counterparts' mindsets change, and juniors are guided. Faculty and students with

higher intellectual levels serve as lighthouses, illuminating others, resulting in overall quality improvement, greater career prospects, and overall expansion 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

22

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

108

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**

18

File Description	Documents
Any additional information	View File
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 development of social awareness among students and faculty members is vital as part of extension operations. The Institute takes social responsibility by promoting various activities such as the cleanliness awareness program, the Swatchh Sarvekshan campaign for Sangamner City, and so on for the purpose of extending activities in the neighborhood community and alerting students to social issues for their overall development. Thus, through its focused efforts in this field, the institute constantly takes proactive actions to contribute to the social uplift of society and rural people.

The following are the case studies on extension activities carried out in the neighborhood community, for their holistic development.

Sr. No. Description 1 Social Awareness Program 2 Development Of Technological Solutions 3 Education And Service' To The Community - Swachha Bharat 4 NSS Activity :- Blood Donation Camp 5 NSS Activity :- World AIDS Day 6 NSS Activity :- Yoga day 7 NSS Activity :- Tree plantation

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

02

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	No File Uploaded
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

756

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

172

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

07

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.

The Institute has created adequate infrastructure in terms of State of art computer labs, library, language lab, classrooms and seminar halls with audio visual facility. The whole campus has Internet facility with dedicated lease line. The campus has well equipped playground, gymnasium, hostel, mess, women's common room and an amphitheatre. Institute has facilities like Xerox, Stationary store, ATM within the campus.

Laboratories are well equipped and charts, models and cutsections are displayed in laboratories for better understanding. The Institute has excellence centers like E-Yantra Robotics Lab, NVIDIA-CUDA learning center, CISCO Networking Academy, REDHAT Academy Centre etc. Modern machineries like 3D printer, Co-ordinate Measuring Machine, Hybrid Wind/Solar system etc are also added in the laboratories to facilitate advance learning and research. Classrooms and seminar halls are well furnished, ventilated, illuminated and equipped with mounted LCD projectors, white screens, podium, green boards. The ICT tools and audio-video facilities further strengthens the infrastructure of the institute. The Library is segmented in Reference Section, Journal Section, Reading Hall, Digital library, etc. The library has collection of Textbooks, Reference, Journals, e-Journals, CDs, LED TV etc. The

institution has membership of Automotive Research Association of India, Delnet, Jaykar Library, Indian Institute of Technology, Mumbai.

File Description	Documents
Upload any additional information	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 Padmabhushan Vasantdada Patil Krida Sankul and Medha Ground having size 50,420 sq.m and 58,980 sq.m. 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. Institution provides its playground for organizing university, district and state level events.

The gymnasium has high end machineries and equipments for body building. 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. The institute organizes many competitions like dance, song (group and solo), writing, debate, rangoli, flower decoration, poster making, painting etc every year. Amrut kalamanch and Amphitheatre; with 1000 and 2500 seating capacity respectively, Conference halls (Dronagiri- 350 capacity, JRD Tata Hall-150 capacity) equipped with proper sound and light systems. Special classes on selfdefense are organized specially for female students. The Institute has a Yoga Club which runs daily 05-06 pm. Some of the faculty members serve as instructors for Yoga Club. Institute celebrates 21 June, the international Yoga day on large scale. 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.

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.

44

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)

25.85

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
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 center in Engineering, Science & Technology and related areas. The library is partially automated using library management software 'Sack Info ERP Software (V.2.5)' with barcode technology since 2018.

The library has rich collection of text book, reference books, handbooks, manuals, rare books, e-books etc. A total of 67185 volumes, 14983 titles and 39,300 + e-books are available in the library as on 31st May 2022. The library subscribes to 109 print journals and 270 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 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 online scientific 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)

19.39	
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	
228	
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	
<p>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.</p> <p>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.</p> <ol style="list-style-type: none"> 1. Network Security: The college campus has completely switched, high availability network. Network is secured by firewall integrated in router. Additionally, Cyberoam UTM is available with access control. 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 is purchased for individual departments as per their curriculum and research requirement.

3. **Open-Source Resources:** Institute strongly promote open-source software, tools and applications such as JDK, Star UML, Eclipse, G++, gcc, SSH, My-sql server and client, Scilab, Octave etc. for supporting computers assisted learning. Currently institute supports Linux operating system.
4. **Green Computing:** Institute strives hard to reduce the carbon footprint. Most of the administrative activities pertaining to faculty, staff and student are handled through the ERP. All the news feeds are displayed through LED TVs.

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

4.3.2 - Number of Computers

1198

File Description	Documents
Upload any additional information	View File
List of Computers	No File Uploaded

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	No File Uploaded

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)**

95.9

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 classrooms are well-equipped with modern teaching tools, such as LCD projectors. The maintenance and cleaning of the classrooms and furniture are done with the efforts of non-teaching staff and in major cases the college employs a maintenance contract to the experts. A request letter is sent to the principal to pre-approve the expected expenditure for the work. Quality control is conducted during the process and the bill is checked and approved before being sent to the relevant authorities. All computers and peripherals are also inspected by the technical assistant for any issues. The institute's website is updated and maintained internally. Library software is maintained by AMC. CCTV camera has been installed at all important places in campus including classrooms.

Electrical, plumbing and generator maintenance is done with the help of local skilled persons. The quality of drinking water is tested regularly. The fire extinguishers are refilled timely. The running track and gym are open to all stakeholders, and the management provides adequate funds for the upkeep of sports facilities. The general maintenance of infrastructure is looked after by the estate section. However, periodical, preventive and post-maintenance of equipments are done through Annual Maintenance Committee as per suppliers' service manual.

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

2807

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

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

06

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File
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	https://www.avcoe.org
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	
1371	
5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
1371	
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	A. All of the above

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

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
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

748

File Description	Documents
Self-attested list of students placed	No File Uploaded
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

1

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

03

File Description	Documents
Upload supporting data for the same	No File Uploaded
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.

06

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 university/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)

As SPPU under student development welfare cell, students take active participation in various committees such as Student's Council, Student Development Cell, Gender Equality, Equal Opportunity Cell, Anti-Ragging, Student Grievance and Redressal Cell, Cultural, Sport, Technical Activities.

There are various committees for technical events like BAJA, SUPRA, Efficycle etc. Team of students' carryout various tasks at National and International level.

Extension Activities - different activities such as Blood donation Camp, Swachha Bharat Abhiyan, Yoga day, Tree plantation, Marathi Bhasa Sanvardhan, Flood Donation, Anti-Oxidant Awareness Program, Junk Food Campaign, 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 committees like 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

14

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

- An Alumni Association registered 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.
- 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. 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.

- The alumni of the institute supports the students for financial help during their project work, or any competitions.
- Alumni voluntarily involve in mentorship for current first year and second year students of institute through Buddy scheme a unique feature.. He inspires and motivates the student to infuse confidence level by quoting his journey, deep career to achieve the excellence. In this scheme the alumni 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

- **Vision**

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

- **Mission**

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

benefit of mankind and nature.

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

- Governance
- 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.
- Academic Planning: Semester wise academic calendar which includes all curricular, co-curricular, extracurricular activities by following University academic calendar.
- Financial Planning: Budget required in academic year as per perspective plan.

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.

Decentralization- ISO, etc.

Participative Management:-Involvement of stakeholders (GC, CDC, AAB (Academic advisory board), IQAC, DAB (Department Advisory board), DCC (Department Core 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.

- Students Council
- Students Association
- Cultural and sport and other activities.

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 2019 -2029

1. External Environment
2. UG Environment
3. PG Education and Research.

(a) Goal: To start Automation and Robotics and Electronics and Computer Department

- Strategies and Tasks :

Strategy 5: Introduce core and emerging engineering courses:

Automation and robotics department instead of production engineering under Mechanical BoS and Electronics and Computer Engineering instead of Electronics Engineering under Electronics BoS is started from academic year 2021-22.

Mechatronics and AI & DS in Information Technology by 2022 -2023 and emerging disciplines in electronics and Telecommunication, Electrical and power within span of five years.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
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.

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	No File Uploaded
Screen shots of user inter faces	No File Uploaded
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

All staff that is eligible as per the Staffs' Provident Fund legislation are enrolled as members to EPF Scheme. Institute provides gratuity scheme, Group Medical Insurance, for staff. All the benefits at superannuation are extended to all staff members. Summer and Winter Vacations of 70 days, 12 days Casual Leave per year. 10 days Medical Leave per year for approved faculty and 9 days of special leaves for ad-hoc faculty members. 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. 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. Tuition fees collected in Equal Monthly Installments (EMI) for wards of the staff. Institute provides uniforms to non-teaching staff 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**

03

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**

04

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

113

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 management evaluates teachers based on teaching, R&D 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 used of by staff member for this purpose. The concerned HOD gives their remarks on the performance of the faculty member. 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 for academic performances, R&D, consultancy, IPR, 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. 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 GC and CDC, 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 CA as internal and external auditors who audit the accounts annually. After the audit, the report is sent to the management for review.

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.

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

03-09-2022

There is no adverse remark on the accounts of the institution

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

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)**

00

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)	No File Uploaded

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

1. 10% of total income is taken out as corpus fund.
2. 70% of total expected income is allocated for staff salary
3. 20% of total expected income is budgeted in following proportion
 - o Library 5%
 - o Infrastructure built up -10%
 - o Laboratory equipment - 25%

- Laboratory Consumables - 5%
- Maintenance and Spares - 30%
- Research and Dev. - 3%
- Travel and Training - 2%
- Miscellaneous-10%
- Others - 10%

4. 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.
5. 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.
6. 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.
7. 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.

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. In order to ensure the quality of the educational system, including the teaching and learning process, IQAC holds regular meetings. The IQAC and its constituent ISO cell undertake various quality assurance initiatives. IQAC conducts academic audit covering all the important aspects of teaching-learning process. A separate audit was conducted to assess quality of course file and personal file contents of individual faculty. Continuous improvement is achieved through periodic academic and administrative audits (AAA) 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 its constituent ISO cell are provided in additional information file. The following activities are conducted by IQAC to improve the standards of education at the institution.

- Organizes induction programme for FE student with FE coordinator
- Coordinating of social activities through active NSS unit of the institute
- Promote research and innovation culture in the institute through R&D cell
- Organize faculty development programs (FDP)
- Preparation for NBA.

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 and administrative audits (AAA).

Various reforms and quality initiatives undertaken by IQAC are elaborated:

1. Academic calendar and adherence with academic calendar
2. Enhancement in the usage of innovative pedagogy techniques and ICT tools
3. Implementation of Outcome Based Education (OBE)
4. Strengthening of the ERP system
5. Feedback system for evaluation of faculty from students
6. Students' result analysis
7. Adopting a revised ISO 9001-2015 Quality Management System (QMS)

8. Review of all the academic and administrative processes through academic and administrative audits conducted through ISO
9. The Institute always believes in continual improvement and strive to get a quality assessment by various agencies. To testimony this, Institute programs are accredited four times by the National Board of Accreditation (NBA), New Delhi.

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 2022 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	https://www.avcoe.org/NAAC/AQAR2021-22/CR7/7.1.1/7.1.1%20Gener%20Equality%20Link%20for%20annual%20gender%20sensitization%20action%20plan.pdf
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	View File
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

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 $0.85 \times 8952 = 7609.2$ 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	View File
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	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

<p>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</p> <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping 	<p>A. Any 4 or All of the above</p>										
<table border="1"> <thead> <tr> <th data-bbox="92 566 531 629">File Description</th> <th data-bbox="539 566 1394 629">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="92 640 531 734">Geo tagged photos / videos of the facilities</td> <td data-bbox="539 640 1394 734" style="text-align: center;">View File</td> </tr> <tr> <td data-bbox="92 745 531 875">Various policy documents / decisions circulated for implementation</td> <td data-bbox="539 745 1394 875" style="text-align: center;">No File Uploaded</td> </tr> <tr> <td data-bbox="92 887 531 943">Any other relevant documents</td> <td data-bbox="539 887 1394 943" style="text-align: center;">View File</td> </tr> </tbody> </table>	File Description	Documents	Geo tagged photos / videos of the facilities	View File	Various policy documents / decisions circulated for implementation	No File Uploaded	Any other relevant documents	View File			
File Description	Documents										
Geo tagged photos / videos of the facilities	View File										
Various policy documents / decisions circulated for implementation	No File Uploaded										
Any other relevant documents	View File										
<p>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</p>											
<p>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</p>	<p>A. Any 4 or all of the above</p>										
<table border="1"> <thead> <tr> <th data-bbox="92 1395 531 1458">File Description</th> <th data-bbox="539 1395 1394 1458">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="92 1469 531 1599">Reports on environment and energy audits submitted by the auditing agency</td> <td data-bbox="539 1469 1394 1599" style="text-align: center;">View File</td> </tr> <tr> <td data-bbox="92 1610 531 1704">Certification by the auditing agency</td> <td data-bbox="539 1610 1394 1704" style="text-align: center;">View File</td> </tr> <tr> <td data-bbox="92 1715 531 1809">Certificates of the awards received</td> <td data-bbox="539 1715 1394 1809" style="text-align: center;">No File Uploaded</td> </tr> <tr> <td data-bbox="92 1821 531 1877">Any other relevant information</td> <td data-bbox="539 1821 1394 1877" style="text-align: center;">View File</td> </tr> </tbody> </table>	File Description	Documents	Reports on environment and energy audits submitted by the auditing agency	View File	Certification by the auditing agency	View File	Certificates of the awards received	No File Uploaded	Any other relevant information	View File	
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Certification by the auditing agency	View File										
Certificates of the awards received	No File Uploaded										
Any other relevant information	View File										
<p>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly</p>	<p>A. Any 4 or all of the above</p>										

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

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

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)	No File Uploaded
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 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, 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

A. All of the above

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	View File
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.

1. Title of the Practice

"Professional Skills Development for better career opportunities."

2. Goal

- To groom the students as per the requirements of industry.
- Give focused training to the students to increase the employability.

3. The Context

Students lagging in professional skill in spite of having good technical, academic knowledge. Corporate were not able to give sufficient time for skill development.

4. The Practice

Institute offering various soft skill programs to students of all years. Department, Professional trainers are putting efforts for upgrading the skill sets. Aptitude Training is specially conducted for BE Students. Company specific training is done, in which the exam pattern and most likely questions are taken by third party agency.

5. Evidence of Success:

Number of students trained for various companies are 1222 in academic year 2021-22 and total students are placed 748 in

industries/organizations. This count is increasing every year as institute putting more efforts for training conduction.

6. Problems Encountered and Resources Required

Students come from different culture and rural areas needs enhancement of communication skills. Additional man power for coordinating department level activities was necessary for proper coordination, achieving long term goals.

7. Notes: NA

Best Practice_2 : refer additional information

Link Here:<https://www.avcoe.org/NAAC/AQAR2021-22/CR7/7.2%20Best%20Practices%20upload.docx>

File Description	Documents
Best practices in the Institutional website	Nil
Any other relevant information	https://www.avcoe.org/NAAC/AQAR2021-22/CR7/7.2%20Best%20Practices%20upload.docx

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

The campus placements of the institute have marched the excellent count of 748 in academic year 2021-22. The career development cell (CDC) is implementing different schemes such as trainings (Company Specific/ General), Competitive examinations guidance, Buddy scheme etc. Total 55 companies visited institute for campus placements in which more than 100 placements are achieved in those companies from the institute. In 2021-22, total 38 students from Civil Engineering has recruited in Maharashtra Public Service Commission (MPSC)- Civil Services Examination.

Placements Record:

Unique features of the Institute:

- AVCOE Sangamner established in 1983 under the leadership and processing under the guidance of Hon. Late. Bhausaheb Thorat .
- It is spread over 15.6 acres of ample greenery,
- Four 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 languages (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.

Imparting excellence driven engineering education that builds the future of Engineers 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

- Upgrading Facilities, to start new projects and product development for other of of institutes and industry
- Get remaining programme NBA Accredited (Mechanical, Electrical, & Computer engineering).
- Application for ranking under NIRF, CSR and CII will be initiated.
- Institute is planning to adopt Certification/ Add-on courses through various departments.
- Institute has plan to increase publication in UGC listed journal.
- Through IQAC, FDP will be applied under NAAC funding scheme.

- Lab development for newly opened AICTE branches i.e. Automation and Robotics, Electronics and Computer.
- New UG Programme will be applied i.e Big Data Science, Artificial Intelligence and Increase in intake for E&T and IT.
- Nomination for Board of studies, Senate, and council at SPPU.
- Restructure of various policies is in line with today's requirement at Institute level.