



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	AMRUTVAHINI COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr. M. A. Venkatesh
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02425259017
Mobile no.	9972132130
Registered Email	principal@avcoe.org
Alternate Email	mavenka@gmail.com
Address	A/P: Ghulewadi, Tal: Sangamner, Dist:Ahmednagar
City/Town	SANGAMNER
State/UT	Maharashtra
Pincode	422608

<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Prof. R. S. Tajane
Phone no/Alternate Phone no.	02425259018
Mobile no.	9850265484
Registered Email	naac@avcoe.org
Alternate Email	ravindra.tajane@avcoe.org

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.avcoe.org/pdf/AOAR2017-18.pdf">https://www.avcoe.org/pdf/AOAR2017-18.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.avcoe.org/academic_calendar.php">https://www.avcoe.org/academic_calendar.php</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.01	2016	17-Mar-2016	16-Mar-2021

<b>6. Date of Establishment of IQAC</b>	02-Jan-2015
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<b>7. Internal Quality Assurance System</b>
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Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Academic Internal squad team appointed to conduct/ support effective examination process	14-Nov-2018 34	3276
Faculty development In-house FDP on Aviation Technology and Internship at HAL, Nashik	11-Jul-2018 4	102
<a href="#">View File</a>		

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

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

Started Activities under Unnat Bharat Abhiyan (UBA), Unnat Maharashtra Abhiyan (UMA) PMKVY

Implant training for Staff - Industrial

English Enhancement Coaching for Staff and Students

Japanese / Foreign language classes

Use of renewable energy by installing 400 kw plant

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### 13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Services offered and provided outside such as Offer lab. Facilities, projects and product development for other institutes and industry.	Boiler, CNC, four ball tester, pin-on-disc, MQC lab, mechanical testing, soil testing services offer to society, institute and industries.
Consultancies in various areas offered.	Structure design (water tank) for civil work, design and manufacturing for (CNC/ Workshop jobs) industry and society.
Planned purchase of equipment's for Mechanical/Production/Computer Engineering.	Procurement did for 3D printer
Plan to apply for entrance examination conduction to felicitate admissions of high JEE/MHCET merit students and provide a curricular and extracurricular campus ambiance	Development and readiness of carrier Development Cell provided, conduct MOCK CET exam under Maharashtra Govt. preparation of prospectus and brochures, placement of 580 students, and expert lectures conducted for prospectus.
Planned achievement of Programme outcomes and course objectives.	Audited Through ISO
Brand building activities for AVCOE	Various promotion activities like advertising and alumni meet and the awareness in student regarding placement in various companies. Internship and Implant training provided.
Initiation and structuring the research culture in AVCOE by organizing International, National and state level events as well.	Conducted seminar/workshop/conferences at State, National and International, submitting AICTE/UGC research proposal, implant training to staff and student etc.
To implement procure and deploy UBA/PMKVY/AICTE /BCUD /DST/UGC grants from Government and other sources.	Proposal submitted, got sanctioned under PMKVY, UBA, UMA etc. and other are in process.
Introduction and planning for value addition technical and Soft Skills development courses using AVCOE's infrastructure	Soft skills (FACE Academy) and Foreign language courses (JLPT), Technical courses (Java, C, C++, autoCAD, ProE etc.) and many more activity were started
GATE and competitive exam Coaching and orientation to develop culture.	Extra and expert coaching provided.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="118 226 796 275" style="width: 50%;">Name of Statutory Body</th> <th data-bbox="796 226 1476 275" style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="118 275 796 360" style="text-align: center;">Amrutvahini Sheti va Shikshan Sanstha, sangamner</td> <td data-bbox="796 275 1476 360" style="text-align: center;">13-Nov-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Amrutvahini Sheti va Shikshan Sanstha, sangamner	13-Nov-2019
Name of Statutory Body	Meeting Date				
Amrutvahini Sheti va Shikshan Sanstha, sangamner	13-Nov-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	30-Jan-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The link to open ERP is <a href="http://erp.avcoe.org">erp.avcoe.org</a> Amrutvahini College of Engineering, Sangamner has an ERP named SackInfo 2.5. On the homepage it has three modules. 1. Event Calendar 2. Log in 3. Notice 4. Search Book in Library Each individual has its own user name and password for the login. When user log in to the system it has different modules. The ERP has different modules. The main modules are: 1. Academic Monitoring 2. Clearance 3. Committee 4. Establishment 5. Events 6. Exam Section 7. Feedback 8. Staff Attendance 9. Student Section I. Academic Monitoring has three modules: 1. Main Entry It consists of i. Timetable of individual staff and ii. Teaching Plan of individual staff. 2. Reports It contains different reports like i. Consolidated Student Attendance ii. Daily Monitoring iii. Department Load iv. Letter Generation v. Student attendance vi. Syllabus Coverage vii. MaxMin Attendance viii. Monthly Progress in Attendance ix. Student Subject x. Elective Subject Student List xi. Subject Wise Student Attendance xii. Single Student Report xiii. Subject Description xiv. Subject wise Student Attendance xv. Student Subject xvi. Teaching Plan xvii. Time</p>				

Table xviii. Total Period Engaged 3. Transaction In this module we have i. Student attendance ii. Update the student attendance. II. Clearance consists of two modules 1. Reports It has the reports of student's dues. 2. Transactions 3. It has the dues implement. III. Committee 1. Main Entry i. Committee Master ii. Committee Member iii. Committee Roles iv. Meeting Master 2. Master Entry Committee Designation 3. Reports i. Committee List ii. Committee Meetings iii. Committee Member List iv. Committee Roles v. Member Attendance vi. Member Called for Meeting vii. Minutes of Meeting 4. Transactions IV. Establishment 1. Main Entry 2. Reports V. Events 1. Reports 2. Transactions VI. Exam Section 1. Reports 2. Transactions VII. Feedback 1. Reports VIII. Staff Attendance 1. Reports 2. Transactions IX. Student Section 1. Reports

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institution has well defined procedure for various curricular delivery and documentation under ISO 9001:2015 like academic calendar, preparation of timetable, planning for teaching, preparation for course delivery, teaching, internal test, conduct of university examination etc. the procedure of Few of curricular activities are given below; Academic calendar 1. Get the correct on time input from all the concerned at the starting of the semester. Plan Academic year (semester) considering: 2. Ensure completion and circulation to all the concerned of the calendar before commencement of the semester. Preparation of Timetable 1. Ensure adequate student - faculty ratio and distribute the subjects (Theory and Practical) among faculty members. 2. Allocate classroom and laboratories for theory and practical sessions. 3. Prepare Timetable for the Class room and Practical sessions. Anticipate disturbance to the execution of time tables and make alternate arrangements to avoid same. Engage the vacant time slots for engaging the students in delivering knowledge beyond syllabus, revision and MCQ practice. Display both timetables on department notice board. 4. Prepare and approve from HoD theory / practical plan and display practical plan with date on the laboratory notice board. 5. Prepare and get Individual Time Table approved from HoD. Planning for Teaching 1. Refer the copy of syllabus and decide number of Lecturers and Practical as per University norms. 2. Divide unit into number of topics. 3. Assign lecturer(s) to the identified topics in such a way that it is possible to cover whole syllabus within decided period. 4. At the end of every week, review the teaching plan to ensure completion of topics as per plan. Put appropriate remarks on Attendance sheet. 5. In case of noncompliance initiate necessary actions to complete the pending activities. 6. At the end of the

week, calculate percentage syllabus coverage. Compare the same against planned, in case of noncompliance to the planning, initiate action and ensure that the whole syllabus is covered within decided period. Preparation for the course delivery 1. Prepare the notes as per syllabus for the topics to be covered taking references from Text books and reference books. 2. Prepare course file. The file shall contain i. Institute and Department Vision, Mission, Quality Policy, Quality Objectives, PEOs, POs and PSOs ii. Departmental Academic Calendar iii. Individual Time table iv. Approved SPPU Syllabus Copy v. Teaching plan vi. CO and PO Mapping vii. CO and PSO Mapping viii. Notes, Handouts ix. Multimedia/e-learning resources (presentations, audio, still images, animation, video, MCQ question bank etc. in digital/soft copy form) x. Beyond syllabus & bridging the gap xi. Test Question Papers xii. University Question Papers 3. Prepare Laboratory manual. The manual shall contain i. Institute and Department Vision, Mission, Quality Policy, Quality Objectives, PEOs, POs and PSOs ii. Approved SPPU Syllabus Copy iii. List of Experiments iv. CO and PO Mapping v. CO and PSO Mapping vi. Beyond syllabus & bridging the gap 4. Upload the teaching notes, handouts, lab manuals and relevant e-learning resources on the institute repository in library portal.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
<b>No Data Entered/Not Applicable !!!</b>					

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/06/2018
BE	Computer Engineering	01/06/2018
BE	Electrical Engineering	01/06/2018
BE	Electronics Engineering	01/06/2018
BE	Electronics and Telecommunication Engineering	01/06/2018
BE	Information Technology Engineering	01/06/2018
BE	Mechanical Engineering	01/06/2018
BE	Production Engineering	01/06/2018

#### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

Certificate	Diploma Course
<b>No Data Entered/Not Applicable !!!</b>	

### 1.3 – Curriculum Enrichment

## 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
JLPTN5	01/07/2018	122
Workshop on "Communication skills, Personality Development Aptitude"	06/07/2018	416
Technical Workshop on "Robotics and Process Automation"	23/08/2018	152
FACE Academy	25/08/2018	249
Auto CAD	25/08/2018	21
JLPTN4	01/07/2018	49
Aptitude and Soft Skill Development	22/07/2018	140
RHCSA	01/09/2018	21
Red Hat	01/09/2018	40
Red Hat Certification	01/09/2018	21
Cyber Security	01/09/2018	20
Core Java	08/09/2018	16
Industrial Approach in Electronics	13/07/2018	59
TCS Specific workshop	25/08/2018	90
Electrical CAD	08/09/2018	46
MATLAB Software	11/09/2018	40
Java Programming	26/01/2019	71
Variable Frequency Drive	25/02/2019	21
Advanced Internet of Things	27/08/2018	47
Enhancement of Programming Skill	19/08/2018	35
C Language Programming Skill	20/08/2018	190
Internet of Things	03/09/2018	50
Technical Workshop on "Industrial Approach in Electronics"	21/09/2018	52
Technical Workshop on "Aurdino Based IoT"	21/09/2018	63
Technical Workshop on "PLC Automation"	01/03/2019	40
Technical Training on "Reliance Jio Training"	23/03/2019	18
Core Java (36 Hrs.)	22/07/2018	29



Microsoft excel basic plus advance	14/07/2018	90
Robotics Process Automation (RPA) Technical Training	22/08/2018	30
CATIA Plastic product Design	20/09/2018	28
Six Sigma Green Belt	17/12/2018	44
GATE course for BE PROD. students	01/12/2018	21
Two days "Drona Aviation workshop"	29/08/2018	70
CNC Operations Programming and CMM operating Training	30/08/2018	10
One Day Workshop 'Campus To Corporate Beyond'	12/02/2019	65
CNC Operations Programming and CMM operating Training	02/04/2019	70
Ansys 16.0	23/09/2018	35
CATIA V5.0	19/01/2019	42
Workshop on "Web Designing" under IEI Student Chapter	07/09/2018	55
Value addition courses on "Advances in Java Programming".	08/09/2018	50
Workshop on "Web Site Development and Maintenance".	02/02/2019	55
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	23
BE	Electrical Enginnering	17
BE	Electronics Engineering	15
BE	Electronics and Telecommunication	20
BE	Information Technology	7
BE	Mechanical Engineering	98
BE	Production Engineering	46
MBA	Management	59
<a href="#">View File</a>		

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

### Feedback Obtained

College has a well established ISO mechanism to obtain feedback through online and offline from its stakeholders Specific suggestions from feedback of stakeholder on several intervals. Feedback is conducted as per frequency. Feedback is analyzed and feedback outcomes are forwarded to respective heads for implementation and Followup. Based on feedback suggestions from various stakeholders are taken into consideration. On and above bridging the gap and self learning is implemented as per the feedback received. For teachers feedback analysis is done on the basis of set standard i.e. 75. If feedback is less than landmark, forwarded to respective staff through HEAD and IQAC. Intimation letter issued for respective faculty, and followup will be done by respective HEAD and IQAC for remedies. Various types of feedback their mode of conduction and frequency is given below

Feedback types	Mode	Sr. No.
Student Feedback (Overall Academic Performance)	One's in year Manual	1
Teacher Performance ( Nano / Manual)	by student Twice in Sem	2
Student to Institute	Twice in Sem Online/ Manual	3
Student to Library	Once in year Manual	4
Student to Lab Assistant / Technical Assistant	Once in Sem Manual	5
Teacher to student	Once in year Online	6
Teacher to Institute	Once in year Manual	7
Hostel	Once in year Manual	8
Parents Meet/ Walking	Manual	9
Employer Feasibility Manual / Mails	Suggestions	10
Alumni Meet/ Walking Manual / Mails	Suggestions	11

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Civil Engineering	180	180	185
BE	Computer Engineering	120	120	124
BE	Electrical Engineering	60	60	60
BE	Electronics Engineering	60	60	55
BE	Electronics and Telecommunication Engineering	60	60	58
BE	Information Technology	60	60	62

BE	Mechanical Engineering	180	180	181
BE	Production Engineering	60	60	41
ME	Civil Engineering	18	18	18
ME	Computer Engineering	18	6	6
ME	Electronics and Telecommunication	18	5	5
ME	Mechanical Engineering	18	3	3
MBA	Management	60	60	60
<a href="#">View File</a>				

## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3276	202	173	23	10

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
206	172	80	35	1	13

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes, The institute has Mentoring Scheme in which a Tutor/Mentor (faculty) is allotted to the students from first to final year. Monthly meetings are conducted by the mentor with the students to discuss academic performance and progress of the allotted students. Mentors render guidance in studies, career planning and also address personal and psycho social issues. A. Academic The institute provides regular counselling to the students to address issues relating to their academic shortfall and obstacles. The institute has a tutor scheme where a group of students are placed under the guidance of tutor. The Tutor looks after their academic requirements and makes arrangements for remedial and tutorial classes. B. Personal The Tutors perform regular collaboration with the students placed under their tutorship at a one to one level. The students are encouraged to share their personal problem and a friendly environment is provided to make them comfortable to share their personal difficulties. The tutors maintain secrecy of any personal information and takes necessary corrective steps in consultation with senior official staff, thereby addressing personal problems. The mentoring scheme is run through each department to discuss the problem of every student. C. Career The students, at the time of the admission, are guided by the faculty in choosing appropriate branch. They are informed about the scope and nature of the various subjects that form the syllabus. They are counselled adequately to shape their career. Personalized counselling and parental care is made possible by tutor, mentor schemes practiced in the institute. The Alumni Buddy scheme entails pairing each of our current students with a suitable buddy from our alumni network. The aim of the scheme is to enhance student's career opportunities while enabling participants to explore mutual

professional interests and aspirations. The institute also encourages the students towards taking Higher Education and Research by arranging inhouse special training for Competitive Exams, Soft Skills, and Aptitude Tests etc. D. PsychoSocial The students at times come face to face with certain social issues or problems which tend to bring the inferiority complex in them. The teachers make it sure that no such deterioration happens with the psycho social understanding of the students. They are counselled to become better human beings and advised to stand tall for the social cause.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3478	206	1:16:9

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
165	206	0	0	17

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. M. R. Wakchaure	Dean	Eminent Engineering Teacher Award by Architectural Engineers Association Nashik
2019	S. D. Galande	Assistant Professor	Best oral paper presentation award, Innovation in Engineering Research2019, D. Y. Patil College of Engineering, Ambi, Pune.
2018	D. S. Bajaj	Assistant Professor	Best oral paper presentation award, ICOMACE, K. G. Reddy COE, Hyderabad, 2122 Dec. 2018
2019	R. S. Gavhane	Assistant Professor	Best oral paper presentation award, Innovation in Engineering Research2019, D. Y. Patil College of Engineering, Ambi, Pune.
2018	V. J. Hase	Assistant Professor	Best oral paper presentation award, "Big Data Innovations for Sustainable

			Cognitive Computing (BDCC 2018)", Dec. 1415, 2018, Coimbatore.
2018	V. B. Shinde	Assistant Professor	Dronacharya Award at International GOKart Championship at LPU, Jalandhar
2018	Dr. V. D. Wakchaure	Professor	Outstanding Engineer Award, IEI, Ahmednagar Local Center
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	Civil Engineering	201819	10/04/2019	18/07/2019
BE	Computer Engineering	201819	10/04/2019	18/07/2019
BE	Electrical Engineering	201819	10/04/2019	18/07/2019
BE	Electronics Engineering	201819	10/04/2019	18/07/2019
BE	Electronics and Telecommunication Engineering	201819	10/04/2019	18/07/2019
BE	Information Technology	201819	10/04/2019	18/07/2019
BE	Mechanical Engineering	201819	10/04/2019	18/07/2019
BE	Production Engineering	201819	10/04/2019	30/08/2019
MBA	Management	201819	14/05/2019	10/07/2019
<a href="#">View File</a>				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

University Reforms adopted by the institute •University has suggested online tests for FE and SE students and Insemester exam for TE students. •The choice based credit system is introduced by SPPU for PG courses. •Photocopy of answer sheets can be obtained by the individual student in case he/she is not satisfied with the assessment. Reforms initiated by the Institute •Institute conducts monthly internal unit tests weekly tests for SE per semester for every subject, Prelim, Mock oral examination. For TE BE mock insem exam Prelim exam is conducted. •Internal evaluation process is automated through ERP software. The faculty enters attendance and marks of the students periodically. •The

Institute appoints examiners for the practical and oral examinations as per the University directives. •The Institute sends its faculty members as examiners to evaluate semester answer scripts to the affiliating University

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Development of Action Plan through Academic Calendar: ? Curriculum and academic calendar are designed and published by the Savitribai Phule Pune University (SPPU). ? Before commencement of each semester, The Principal calls meeting with Heads of the Department (HOD) and faculty members to plan and communicate academic calendar. This is unanimously followed by all Departments and minimum alteration is allowed, with prior permission of Principal. ? Academic calendar contents: ? Guest lectures, industrial visit, mentor meeting, weekly Principal and HOD meeting, holidays, test, total no of working days. A specimen copy of academic calendar is following: ? Teaching plan and practical plan is prepared and conducted as per ISO procedures and standards. ? Class, laboratory and individual faculty time tables are prepared, preserved and displayed with prior approval of Principal and HOD. ? Subject allocation to the faculty is done as per area of specialization and their choice by HOD. Subject distribution is planned well in advance for proper academic implementation. ? Lab manual, theory, practical and teaching plans are prepared by faculty for the respective subject allotted before commencement of semester considering academic calendar and time table. ? Faculty maintain course file which contain following information: ? Academic calendar, individual time table, syllabus, teaching notes, assignment/ tutorial questions, transparencies/ppt handouts, class test question papers, university question papers. Deployment of Action Plan: ? After preparation of course file, as per academic calendar and time table lectures are conducted by respective department. ? Academic calendar contents: ? Guest lectures, industrial visit, mentor meeting, weekly Principal and HOD meeting, holidays, test, total no of working days. A specimen copy of academic calendar is following: ? Teaching plan and practical plan is prepared and conducted as per ISO procedures and standards. ? Class, laboratory and individual faculty time tables are prepared, preserved and displayed with prior approval of Principal and HOD. ? Subject allocation to the faculty is done as per area of specialization and their choice by HOD. Subject distribution is planned well in advance for proper academic implementation. ? Lab manual, theory, practical and teaching plans are prepared by faculty for the respective subject allotted before commencement of semester considering academic calendar and time table. ? Faculty maintain course file which contain following information: ? Academic calendar, individual time table, syllabus, teaching notes, assignment/ tutorial questions, transparencies/ppt handouts, class test question papers, university question papers. Deployment of Action Plan: ? After preparation of course file, as per academic calendar and time table lectures are conducted by respective department.

**2.6 – Student Performance and Learning Outcomes**

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.avcoe.org>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage

19110	BE	Civil Engineering	208	177	85.09
24510	BE	Computer Engineering	150	150	100
29310	BE	Electrical Engineering	83	68	81.93
37210	BE	Electronics Engineering	68	65	95.59
37610	BE	Electronics and Telecommunication	77	76	98.70
24610	BE	Information Technology	75	75	100
61210	BE	Mechanical Engineering	209	189	90.43
60610	BE	Production Engineering	65	59	90.76
MB5162	MBA	Management	58	51	87.93

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.avcoe.org>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	300	Amrutvahini College of Engineering	0.18	0.18
International Projects	300	Amrutvahini college of Engineering Sangamner	3	3
Any Other (Specify)	300	Amrutvahini college of Engineering Sangamner	1.5	1.5
Any Other (Specify)	300	Amrutvahini college of Engineering Sangamner	1.9	1.9
Any Other (Specify)	300	Amrutvahini college of Engineering Sangamner	0.6	0.6

Any Other (Specify)	300	Amrutvahini college of Engineering Sangamner	3	3
Any Other (Specify)	300	CTAR, IIT Bombay	0.58	0.58
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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Intellectual Property Area, Effect and Opportunities (AVCOEISHRAE)	Mecahnical	18/07/2018
Intellectual Property Rights (IPR)	Production	25/07/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Electrical Vehicle	Ashwavega (Solar Endurance Test)	E Baja/SAE	23/01/2019	Won consolidated Prize of Rs.1lakh with AIR 31st and 8th in Maharashtra at Pitampur, Indore (M.P.)
Onion Harvester	Team Mavericks	SAE TIFAN Championship	17/03/2019	Winner
mBAJASelf designed and manufactured ATV	Team Titans	SAE	23/01/2019	AIR 73 among 420 teams at National level at Pitampur, Indore (M.P.)
Autocross Future Solar Design Challenge 2019	Team SUNSTRIKERS	Future Solar Design Challenge 2019, Chitkara University, Rajpura, Punjab,	13/03/2019	AIR 3
Onion Harvester	Team Mavericks	Education and SOS awards and certificate of appreciation at Krishithon Nashik	26/12/2018	Winner
GoKart vehicle	ER. Shinde V.B	GOKart Championship at	18/03/2019	Dronacharya Award at



		LPU, Jalandhar		International
Smart Bus (Security System for Bus using IOT)	Ekhande Sudarshan Kakad Shubham	Amrutvahini College of Engineering, Sangamner	29/03/2019	Electronics
Google voice control home automation	Adbhai Ankita Buchkul Rohit Galande Akshay	Amrutvahini College of Engineering, Sangamner	29/03/2019	Electronics
1 phase to 3 phase converter	Thote Ganesh Tekale Shubham Wakchaure Shivam	Amrutvahini College of Engineering, Sangamner	29/03/2019	Electronics
<a href="#">View File</a>				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
<b>No Data Entered/Not Applicable !!!</b>					
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### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
<b>1</b>	<b>3</b>	<b>3</b>

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
<b>Mechanical</b>	<b>2</b>

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Mechanical	3	1.4
National	MBA	2	1.3
International	Mechanical	10	2.6
International	Computer	35	2.6
International	Electrical	1	2.5
International	Electronics	5	2.7
International	Information Technology	6	2.8
International	Production	5	2.9
International	MBA	2	2.6
International	Electronics and Telecommunication Engineering	17	3.3
<a href="#">View File</a>			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Civil Engineering	1
Computer Engineering	1
Electrical Engineering	1
Electronics Engineering	1
Electronics and Telecommunication Engineering	1
Information Technology	1
Mechanical Engineering	1
Production Engineering	1
MBA	1
<a href="#">View File</a>	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Kalman Filtering Framework based Real Time Target Tracking in Wireless Sensor Networks using Generalized Regression Neural Networks	Mr. S. R. Jondhale	IEEE Xplore ICACCT2018	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0
Tracking Target with Constant Acceleration Motion Using Kalman Filtering	Mr. S. R. Jondhale	IEEE Xplore ICACCT2018	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	19
Design of EBG Structure for Mutual Coupling	Mr. M. B. Kadu	IEEE Xplore ICACCT2018	2018	1	Amrutvahini CoE, Sangamner, Savitribai Phule Pune	24

Reduction in Patch Antenna Array					University	
FSW tool design using TRIZ and parameter optimization using Grey Relational Analysis.	Dr. V. S. Gadakh	Materials Today: Proceedings	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	1
Modelling and Microstructure of Friction Stir Welds of AA2014 Alloy: Different Tool Pin profiles	Dr. V. S. Gadakh	Materials Today: Proceedings	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0
OTAC filters for Biomedical Signal Processing Applications using Hybrid CMOSCNFET tech.	Dr. S. B.Rahane	IEEE Xplore	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0
Multi Response Optimization of Burnishing of Friction Welded AA6028T6 Using Principal Component Analysis	Prof. R. S. Tajane	Advanced Engineering Optimization Through Intelligent Technique	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0
Intelligent Threshold Prediction for Hybrid Mesh Segmentation	Mr. Vaibhav Hase	Springer AISC Series, 4th International Conference on	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0

through Artificial Neural Network		Computing in Engineering and Technology				
Automatic Interacting Hole Suppression from CAD Mesh Models	Mr. Vaibhav Hase	Springer AISC Series, 4th International Conference on Computing in Engineering and Technology	2018	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0
MultiObjective Optimization of Nonlinear Quarter Car Suspension System - PID and LQR Control	M. P. Nagarkar	Procedia Manufacturing, Volume 20, 2018, Pages 420427	2018	3	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	3
Abased multiobjective optimization of active nonlinear quarter car suspension system-PID and fuzzy logic control	M. P. Nagarkar	International Journal of Mechanical and Materials Engineering	2018	3	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	3
Study of Mechanical and Sliding Wear Behavior of Al25Zn alloy/SiC/ Graphite Novel Hybrid Composites for Plain Bearing Application	P. P. Ritapure	Tribology in Industry, 2019, Vol. 41 Issue 3, p3753	2019	0	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0
SiC contents	P. P. Ritapure	International	2018	0	Amrutvahini CoE,	0

and pin te mperature effect on tribologic al properties of Al25Zn/SiC composites		Journal of Refractory Metals Hard Materials, 82 (2019) 234-244			Sangamner, Savitribai Phule Pune University	
A Taguchi Approach on Influence of Graphite as an Antiwear Additive on the Performance of Lithium Grease	P. N. Nagare	Procedia Manufacturing, 20, 487492	2018	1	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	1
Tribological Failure Analysis and Suitability of Grease Lubrication for Sugarcane Crushing Mill Journal Bearings	P. N. Nagare	Journal of Failure Analysis and Prevention, (2018) 18: 1311-1319	2018	1	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	1
Design of EBG Structure for Mutual Coupling Reduction in Patch Antenna Array	Dr. Ms. R. P. Labade	IEEE Xplore	2018	1	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	1
CMOS Gilbert Mutiplier for Analog Signal Processing and its FPAA Based Implementation"	Dr. R. S. Pawase	IEEE Xplore	2018	1	Amrutvahini CoE, Sangamner, Savitribai Phule Pune University	0

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## 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
FSW tool design using TRIZ and parameter optimization using Grey Relational Analysis.	Dr. V. S. Gadakh	Materials Today: Proceedings	2018	6	2	Assoc. Prof.
Modelling and Microstructure of Friction Stir Welds of AA2014 Alloy: Different Tool Pin profiles	Dr. V. S. Gadakh	Materials Today: Proceedings	2018	6	0	Assoc. Prof.
MultiObjective Optimization of Friction Stir Welding of Aluminium Alloy 6082T6 Using hybrid TaguchiGrey Relation Analysis ANN Method	Dr. V. S. Gadakh	Materials Today: Proceedings	2018	6	1	Assoc. Prof.
GABased multiobjective optimization of active nonlinear quarter car suspension system-PID and fuzzy logic control	M. P. Nagarkar	International Journal of Mechanical and Materials Engineering	2018	4	3	Research Scholar
MultiObjec	M. P.	Procedia M	2018	4	3	Research

Optimization of Nonlinear Quarter Car Suspension System PID and LQR Control	Nagarkar	Manufacturing				
Study of Mechanical and Sliding Wear Behavior of Al25Zn alloy/SiC/ Graphite Novel Hybrid Composites for Plain Bearing Application	P. P. Ritapure	Tribology in Industry	2019	0	0	Research
SiC contents and pin temperature effect on tribological properties of Al25Zn/SiC composites	P. P. Ritapure	International Journal of Refractory Metals	2019	0	0	Research
Blend recognition from CAD mesh models using pattern matching	V. J. Hase	AIP Conference Proceedings	2019	0	0	Research
A Taguchi Approach on Influence of Graphite as an Antiwear Additive on the Performance of Lithium	P. N. Nagare	Procedia Manufacturing	2018	1	1	Research Scholar

Grease						
Tribological Failure Analysis and Suitability of Grease Lubrication for Sugarcane Crushing Mill Journal Bearings	P. N. Nagare	Journal of Failure Analysis and Prevention	2018	1	1	Research
Forming behaviour of AA5052H32 and AA6061T6 During single point incremental forming	Manoj Ghadmode	7th International and 28th All India Manufacturing Technology, Design and Research Conference 2018	2019	0	0	Research
<a href="#">View File</a>						

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	14	39	31	36
Presented papers	18	18	3	0
Resource persons	0	1	0	12
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### 3.4 – Extension Activities

#### 3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
NSS	SPPU	4	42
Blood Donation Camp	Amrutvahini College of Engineering, Sangamner	13	101
NSS Camp	Amrutvahini College of Engineering, Sangamner	2	44
Mahatma Gandhi 150th Jayanti	Amrutvahini College of Engineering,	3	18



	Sangamner		
Tree Plantation	Amrutvahini College of Engineering, Sangamner	2	13
Cleanness awareness Camp	Amrutvahini College of Engineering, Sangamner	1	24
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Participation in distribution of saplings at SPPU Pune	Trophy and Certificate	SPPU Pune	53
Participation in Global level Agriculture Project Exhibition	Trophy and Certificate	Swami Samarth Seva Kendra, Nashik	4
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	Amrutvahini College of Engineering, Sangamner	Social Work Activity for Sangamner city Residence on 2122/09/2018	16	120
Gender Equality	Amrutvahini College of Engineering, Sangamner	Poster Presentation, Group Discussion	1	23
NSS	SPPU, Pune	NSS Camp	1	24
NSS	SPPU, Pune	Tree Plantation	1	25
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### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
<b>No Data Entered/Not Applicable !!!</b>			
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering	Duration From	Duration To	Participant
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		institution/ industry /research lab with contact details			
Training and Placement	Workshop	OS3 Infotech Pvt. Ltd. Mumbai	27/08/2018	09/09/2018	97
Internship	Innovator	DISQ TCS Foundation	01/06/2018	01/12/2018	1
Industry	Internship	TCS Nagpur	01/01/2019	30/05/2019	4
Industry	Internship	Reliance jio Mumbai	01/01/2019	30/05/2019	4
Industry	Internship	Selfmade Pvt.Ltd.Pune	01/02/2019	30/05/2019	2
Industry	Internship	DisQ Nashik	01/01/2019	30/05/2019	1
Training	Workshop	Fox Solution Pvt. Ltd. Nashik	25/02/2019	26/02/2019	19
Training	Instructor Training Program	CISCO Networking Academy	21/04/2019	05/05/2019	2
Training	Instructor Training Program	CISCO Networking Academy	21/04/2019	27/04/2019	2
internship	Project based learning (PBL) on following projects: 1. Belt Conveyor 2. Friction Brake 3. Moulding Assembly	Ashish Bhise, Mechatol Engineering Solutions, Pune	13/06/2019	30/06/2019	12
Internship	PLM	Mr. Amol Pawar DiTrinity Pvt. Ltd., Pune	15/06/2019	30/12/2019	38

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
dCygnus Automates Pvt. Ltd., Nashik	22/01/2019	Training and Skill Development	12
Cisco Networking	26/02/2019	Training and Skill	4

Academy		Development	
Kanadlab	05/03/2019	Awareness and training in Patent and IPR activities	50
MotoCorp	26/03/2019	To organize Dynamic race of Indo Asian Solar Challenge	12
Mechatol Engineering Solutions, Pune	11/06/2019	Establishment of Project Based Learning Lab	14
Automation Anywhere Inc.	19/12/2018	Training on Robot Process Automation	37
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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
148.2	114.67

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Newly Added
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SackInfo	Fully	2.5	2018
Ananosoft	Fully	2012	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	56436	19888714	1937	970157	58373	20858871

Reference Books	7695	3509772	215	242539	7910	3752311
e-Books	261	0	0	0	261	0
Journals	123	337707	0	0	123	337707
e-Journals	4523	1122514	0	0	4523	1122514
Digital Database	5	1122514	0	0	5	1122514
CD & Video	1582	0	0	0	1582	0
Library Automation	0	0	0	0	0	0
Weeding (hard & soft)	1973	17705617	0	0	1973	17705617
Others (specify)	0	0	0	0	0	0
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
<b>No Data Entered/Not Applicable !!!</b>			
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#### 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1184	35	2	10	12	2	9	100	4
Added	14	7	0	0	0	0	0	0	0
<b>Total</b>	<b>1198</b>	<b>42</b>	<b>2</b>	<b>10</b>	<b>12</b>	<b>2</b>	<b>9</b>	<b>100</b>	<b>4</b>

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS
----------------

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Institutional Repository and Digital Library	<a href="http://172.14.3.94:8080/Colleage/Index.jsp">http://172.14.3.94:8080/Colleage/Index.jsp</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on	Expenditure incurred on	Assigned budget on	Expenditure incurred on
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academic facilities	maintenance of academic facilities	physical facilities	maintenance of physical facilities
164.5	157.45	239.35	32.53

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

• The college has maintenance committee that oversees the maintenance of buildings, classrooms and laboratories. • The maintenance committee is headed by the Registrar/Principal who in turn monitors the work of the Supervisor through HoDs at the next level. The Supervisor is accountable to the Registrar/Principal and functions as the coordinator who efficiently organizes the workforce, maintaining duty files containing details about their individual floor wise responsibilities, timings, leave etc. The maintenance officer conducts periodic checks to ensure the efficiency / working condition of the infrastructure. • Adequate in house staff is employed to meticulously maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Classrooms, Staffrooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by Non teaching staff assigned for each floor. Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. The Green Cover of the campus is well maintained by a full time gardener. • Optimum working condition of all properties/ equipment on the campus is ensured through annual maintenance contracts (AMC). Apart from contract workers, the college has trained in house electricians and plumbers. • Lab assistants under the supervision of the lab incharges maintain the efficiency of the college lab equipments, computers and accessories. • Parking facility is well organized. • The campus maintenance is monitored through surveillance Cameras. • Every department maintains a stock register for the available equipment. • Proper inspection is done and verification of stock takes place at the end of every year though ISO audits. • The civil and electrical work is adequately monitored and maintained by the Estate office. • Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the Administrative office. The requirements are collectively processed in every semester break so as to keep things ready for the new semester. • Pest control is done every year by the maintenance department. • Estate office manager and his team are involved in the maintenance of infrastructure facilities. This team looks after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and housekeeping. • The nonteaching staff is also trained in maintenance of science and computer equipment. • The Estate office workers look after the maintenance of rest rooms, approach roads and neatness of the entire premises. Housekeeping services are regularly executed and monitored.

<https://www.avcoe.org/>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Amrut Scholarship	117	477375
Financial Support from Other Sources			
a) National	TCS DISQ raining	1	15600

b)International	Nil	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft Skill lecture series	15/06/2018	50	Amrutvahini College of Engineering, Sangamner
Yoga Day Celebration	21/06/2018	450	Private
Quiz	22/06/2018	7	Electronic Engineer Student Association (EESA)
Aptitude Test	29/06/2018	83	Electronic Engineer Student Association (EESA)
Debate	02/07/2018	8	Electronic Engineer Student Association (EESA)
Group Discussion	09/07/2018	30	Electronic Engineer Student Association (EESA)
Extempore	16/07/2018	20	Electronic Engineer Student Association (EESA)
Soft skill development	06/07/2018	75	Genosis Plus, Jalgaon
Soft skill development	21/07/2018	75	Genosis Plus, Jalgaon
Soft skill development	15/08/2018	75	Genosis Plus, Jalgaon
Aptitude Test	27/07/2018	42	Electronic
Debate	17/08/2018	14	Electronic
Remedial Coaching 1. Engg. Maths I 2. Engg. Maths II 3. Engg. Mechanics	20/08/2018	123	Self
Technical Quiz	25/08/2018	30	Electronic
Workshop (Communication Skills, Personality Development Aptitude)	06/07/2018	74	Genosis
Importance of communication skill Personality Development	06/07/2018	57	Mr. Girish Pal, Director, Gnosis Plus, Jalgaon

Training on Aptitude and Soft Skills	06/07/2018	70	Genosis Plus, Jalgaon
Soft skill Training	06/07/2018	205	Genosis Plus, Jalgaon
Microsoft excel basic plus advance	14/07/2018	90	Fountain Head Education
Training on Aptitude and Soft Skills	06/07/2018	70	Genosis
Foreign Language (JLPT)	15/07/2018	50	Step up Academy, Pune
General Quiz Competition	11/07/2018	72	ACES
Bridge courses (One day workshop on Multimedia Scope and Applications)	12/07/2018	127	Dr. M.B. Kokare, Associate Professor S.G.G.S. College of Engineering, Nanded (Post Doctoral Fellow, USA, PhD from IIT Kharagpur)
Value Addition (core Java)	22/07/2018	67	Mr. Ganesh Gudekar, Technokraft Solutions, Nashik
Group Discussion Competition	28/07/2018	48	ACES
One day expert lecture on "Software Testing Quality Assurance"	28/07/2018	50	CUDA
Aptitude and Soft Skill Development	22/07/2018	130	Genosis
NVIDIA Webinar on "Discover the power of Deep Learning for medical Imaging"	31/07/2018	53	NVIDIA
Language Lab	01/08/2018	3	Shwetas world foreign and Indian language Institute
Guest Lecture on "Digital Marketing Technical"	02/08/2018	150	CSI
Training Programme for Personality Development	15/08/2018	191	Genosis
Workshop on "Enhancement of Programming Skill"	19/08/2018	35	Prof. P. N. Shingote, Computer Engg., AVCOE Sangamner

Technical Workshop on "Basics of C CPP"	20/08/2018	57	Prof. C. D. Bhos, Faculty ETC Dept., AVCOE, Sangamner
Workshop on "C Language Programming Skill"	25/08/2018	113	Prof. P. N. Shingote, Computer Engg., AVCOE Sangamner
Guest Lecture on "Presentation Skill"	21/08/2018	130	CSI
DrishTI Online Contest on TIVA	21/08/2018	55	EdGate Technologies Pvt Ltd a partner with Texas Instruments India University Program
Robotics Process Automation (RPA) Technical Training	22/08/2018	30	Automation anywhere, University
Workshop on "Robotics Process Automation"	23/08/2018	71	Automation Anywhere University
TCS Specific workshop	25/08/2018	53	Focus Academy for Carrier Enhancement (FACE) , Hyderabad
Personality Development program	25/08/2018	150	FACE, Hyderabad
FACE Company Specific Training Program	25/08/2018	25	FACE, Hyderabad
Soft skill and Technical training, FACE Academy	25/08/2018	205	FACE, Hyderabad
One week training for TCS Interview	25/08/2018	22	FACE, Hyderabad
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Advanced IoT Workshop	0	47	21	21
2019	JLPT Certification	0	50	49	4
2019	Career Counselling and Competitive	77	77	0	48



	Exam				
2019	TCS Cracker Exam	0	34	0	6
2019	GATE classes	30	0	15	2
2019	CDC	65	65	0	46
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Companies	3441	505	Companies	254	72
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	3	BE	Civil Engineering	Amrutvahini college of Engineering, Sangamner	Masters of Engineering
2019	1	BE	Civil Engineering	PREC, Loni	Masters of Engineering
2019	1	BE	Electrical Engineering	PVG College of Engineering & Technology, Pune	Electrical Power System
2019	1	BE	Electronics Engineering	JSPM's Kautilya Institute of Management & Research, Pune	MBA
2019	1	BE	Information Technology	VJTI, Mumbai	MTech
2019	1	BE	Information Technology	Dy. Patil College, Pune	MBA

2019	1	BE	Mechanical Engineering	IIT Gandhinagar	MTech
2019	2	BE	Mechanical Engineering	VIT Vellor	MTech
2019	1	BE	Production Engineering	COEP, Pune	Manufacturing Automation
2019	1	BE	Production Engineering	MIT, Pune	MBA
2019	3	BE	Production Engineering	AIMBA	MBA
2019	1	BE	Production Engineering	Aalborg University, Denmark	Masters in Process Engineering and Combustion Technology
<a href="#">View File</a>					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	15
GRE	1
Any Other	44
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Cultural	Institute	103
Sports	Institute	159
Spot Painting	Institute	1
Project Exhibition	Institute	8
Debate	Institute	5
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
<b>No Data Entered/Not Applicable !!!</b>						
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Composition of Student Council constituted as principal, two faculty, physical director and student represented as general secretary, ladies representative,

sports secretary, NSS secretary, cultural secretary, class representatives, and two girls representatives. The various activities and initiative take by the student council is as below. Activity of Students Council 1. Nirbhay Kanya Abhiyan (Girls) activates conducted are a. Group Discussion b. Debate Competition c. Poster Presentation 2. Gender Equality Cell: activates conducted are a. Group Discussion b. Debate Competition c. Poster Presentation 3. Vigilance Awareness Week: activates conducted are a. Speech Competition b. Gram Sabha c. Integrity Pledge 4. Dr. P.C.Alexander Elocution competition 5. Celebrating 'Marathi Bhasha Din' 6. International Yoga Day 7. Election Campaign 8. Rashtriya Ekta Divas Indira Gandhi Death Anniversary 9. Marathi Bhasha Pandharwada Various activities are conducted under marathi bhasha pandharwada like Marathi Abhivachan, Marathi Role play, Marathi Slogans, Marathi Writing Slogans, Poetry Competition, Antakshari, Debate Competition, Extempore Competition and Essay Writing 10. Flood Donation 11. Disaster Management Workshop a. Students (150) took participation in Medical Emergency Facility and 155 students in disaster prevention strategy 12. Mahatma Gandhi Jayanti 13. Environment Promotion, Cleanliness, Debate Competition, Awareness and awakening and Peace are activities conducted on occasion of Mahatma Gandhi Jayanti 14. Vachan Prerana Divas 15. Youth Festival at University 16. Medha 2019 Cultural Fest 17. Anti Oxident Awareness Program 18. Junk Food Ban 19. Awareness of Cleanliness campus 20. Lokshahi Pandharwada 21. Personality Development 22. Tree Plantation 23. Yuva Mahiti Doot

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

It was established to fulfill the following objectives: • To guide the students community • To establish a healthy relationship between the students, alumnae and all academic fraternities of the college • To assist in arranging and conducting seminars, symposium, workshop and other activities • To promote all academic and infrastructural development • To offer services that college needs • To counsel about student's career. • To offer necessary suggestions and recommendation, to the college authority, if needed. Many students have already registered in the alumnae association and have active participation throughout the year. Various programs are organized every year which not only allows exchange of knowledge and opportunities but also provides guidance to each other

5.4.2 – No. of enrolled Alumni:

54

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

1 Meeting Per Year

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

• Class teachers have given responsibility for complete class, signing on files and attendance sheets. At the Mid of semester, Identify students with Aggregate (classroom Lab) attendance < 75. Display the list. Compile a data related to Attendance and internal test result. Receive the Student Progress Report duly

signed by conc. HOD and Principal. Send the progress report to parents. Receive the acknowledgement from the parents, give the feedback to concern HOD. • Tutors are given responsibility of assuring fees status, scholarship status time to time in coordination with account section. Consolidate the data related to student attendance at the end of every month. Forward the data to Parents along with Progress Report Once in a month preferably in the first week, interact with the students and understand the problems. Try to resolve it. Record the complaint. Discuss the unresolved complaint in the departmental meeting. In case the action at the department level is not possible, communicate the same to the concerned authorities and discuss the same in the Principals Meeting to resolve it. Give feedback of action initiated to the concerned Tutor Teacher. Communicate the actions initiated on the complaints to the students in the next meeting and document the same in the minutes and display . Academic work is decentralized by assigning the responsibilities to Dean Academics Responsibilities: 1. To monitor the working of all academics departments. 2. To monitor the teaching programs. 3. To monitor the achievement of quality objectives. 4. Carry out planning of academic year. 5. To contribute in institute level QMS, NBA and NAAC activities. 6. To ensure that the quality management system conforms to the requirements of ISO 9001:2015 Standard. 7. To ensure that the processes are delivering their intended outputs. 8. To report on the performance of the quality management system and on opportunities for improvement to top management. 9. To ensure the promotion of student focus throughout the departments. 10. To ensure that the integrity of the quality management system is maintained when changes to the quality management system are planned and implemented.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	To identify extent of compliance of the University curriculum Faculty attends Subject specific Faculty Orientation program gives Suggestions at the time of Faculty orientation program
Teaching and Learning	1.Faculty attends Subject specific Faculty Orientation 2.Faculty attends IIT certification courses under NMEICT and NPTEL online courses 3.Preparation of teaching plan. 4.Academic calendar 5.Remedial classes for students. 6.Alumni Interaction 7.Student feedback 8.Alumni feedback 9.Employer Feedback 10 NPTEL, NMEICT workshops conduction facility 11.Workshops/ Guest Lectures/ Industrial Visit/Value added courses /FDPs arranged 12. Internal Academic Audit 13. ISO Audit
Examination and Evaluation	Institute adheres to the examination/ evaluation rules and regulations framed by Savitribai Phule Pune University, Pune. University conducts 1. Online examinations for First year Second year Engineering. 2. In semester

	<p>examinations for Third year Final Year Engineering. 3. End semester examination for FE to BE. Other than this Institute conducts 1. Weekly Assignments 2. Mock online examination 3. Internal Class test 4. Preliminary exam 5. Performance is evaluated and conveyed through SMS to the Parent.</p>
Research and Development	<ul style="list-style-type: none"> <li>• Submission of proposal to various funding agencies AICTE BCUD</li> <li>• Promoting faculty and students for research activities at PG and PhD level</li> <li>Encouragement to staff for publications and patent forms</li> </ul>
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> <li>•Digital Library</li> <li>•Book Bank Scheme</li> <li>•Institutional Repository</li> <li>•Internet/ WiFi Facility</li> <li>•Competitive exam books</li> <li>ICT facility in classroom</li> </ul>
Human Resource Management	<p>Deputation of faculty for FDP / Workshops / Training / Conferences</p>
Industry Interaction / Collaboration	<ul style="list-style-type: none"> <li>• Electronics Engineering Department has established Center of Excellence in CoOrdination with Texas Instrument Bangalore, Under the Same agreement, DrishTi online contest was conducted.</li> <li>• Linking with industry for skill development of students Training Program on New Technologies for e.g. ? Variable Frequency Drives (VFDs) by Mr. Prhallad Dhumal, General Manager Fox Solutions, Nashik to develop skill of operating Variable Frequency Drives (VFDs) ? Internet of Things (IoT) by Mr. Prasad Datye, Director COO, OS3 InfoTech, Mumbai to develop the programming, design and implementation skills of Embedded Systems</li> <li>• The department has organised expert talk on ? "Experience Sharing on Entrepreneurship" by Mr. Aditya Gogate, CEO, Gogate Electronics, Nashik to inform the students about challenges and opportunities in the field of Entrepreneurship. ? "Key facts to study in todays Embedded System Development" by Prof. V. D. Chaudhari Asst. Professor, Godavari College of Engineering, Jalgaon to enhance awareness about the challenges in Embedded System. ? "Role of Digital Communication" by Dr. R. B. Naik, HOD, Computer Engg., MIT College of Engineering, Aurangabad for better understanding of domain area and applications of Digital communication.</li> <li>• To enhance awareness of faculty with</li> </ul>

	the industry level training programme at Hindustan Aeronautics limited, Nashik on Aviation Technology was conducted under Aeronautical Society of India, Nasik Branch. • To enhance the awareness of faculty with industry requirements faculty attended the training program on trends practices in electronics/electrical manufacturing industries organised by L T DTE Mumbai.
Admission of Students	Admission process is controlled by Directorate of Technical Education (DTE), Mumbai

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Examination	Institute adheres to the examination/evaluation rules and regulations framed by Savitribai Phule Pune University, Pune. University conducts 1. Online examinations for First year Second year Engineering. 2. In semester examinations for Third year Final Year Engineering. 3. End semester examination for FE to BE. Other than this Institute conducts 1. Weekly Assignments 2. Self Learning Assignments. 3. Mock online examination 4. Internal Class test. 5. Pre University test. 6. Performance is evaluated and conveyed through SMS to the Parent
Student Admission and Support	1. Encouraging students to participate at Engineering activities of repute at National and International level (Robocon, World Skills International competition, BAJA, Supra etc.), E - Yantra, National level project competitions etc, making a wide publicity of the institution across the nation. 2. Organizing technical Engineering events at National and International level. 3. Organizing a Guest Lectures at high school level, creating an affection towards engineering (Free training is provided to all participants)
Planning and Development	The top management including Trustees, Governing Body and Local Managing Committee, Advisory Committee, Principal ,Faculty and IQAC are involved in design and implementation of quality policy and plans. The Quality Policy of the institute aims to pursue global standards of excellence in teaching, research, and consultancy

and continuing education and to remain accountable for our core and support functions, through processes of selfevaluation and continuous improvement. Active involvement of students and faculty in academic events organized by the institute. 1. Development of effective mechanism for monitoring the academic and administrative activities. 2. Regular meetings with teaching and nonteaching staff for better interaction and participation. 3. The faculty members are actively involved in decisionmaking process at various levels. 4. Different committees under ISO9001:2015 and IQAC are constituted for the smooth conduction of various activities. 5. All the revisions made to improve academic activities are reviewed and discussed in HOD meetings before implementation.

Finance and Accounts

Sufficient financial budget provided to each department. 1. Motivation, guidance, appreciation, incentives and moral support to all the stakeholders. The institute adopts a budgeting procedure, with adequate resources for nonrecurring expenses, recurring expenses (e.g. salary, faculty development, research, repairs maintenance, consumables etc.), learning resources (e.g. books, journals, periodicals) and creation of new facilities. 1.The institute collects budgetary requirements from all the departments/sections in a prescribed format. 2.The head, in consultation with the faculty members, finalize the department requirements and forward them to the Principal for approval. 3.The institute budget is then prepared and the proposed budget is sent to the management for further consideration. 4.Decision is made in consultation with the Principal to ensure that the requirements stated in the budget are given proper justification. The Governing Body of the institute is the final decision making authority for budgetary approval based on recommendations given by the Principal. 5.A standard procedure is followed for procurement. 6.Provisions are made for any additional requirement of capital for emergency expenditure.

Administration

Administration : The institute has many



of the academic and administrative bodies for effective functioning which are listed below: 1. Student Section 2. Exam Section 3. Account Section 4. Anti Ragging Committee 5. Training and Placement 6. Student Council 7. National Service Scheme (NSS) 8. Cultural/Sports Committee 9. ISTE, SAE, CSI ACM Studentsâ€™ Chapter 10. Ganesh Festival Committee 11. Students associations of each department Each department has active student association which organizes various activities for development of students.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Nil	Pattern Making and Sand Casting	10/12/2018	15/12/2018	0	14
2018	Nil	Computer Maintenance	17/12/2018	24/12/2018	0	20
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Workshop on "Advance Internet of Things"	2	27/08/2018	02/09/2018	7
Induction / Refresher	1	26/11/2018	01/12/2018	6



Program on Virtual Simulation Environment For Communication and Embedded System Design (VSECESD)				
Workshop on "IOT: Transformation in Engineering Education for Digital India"	1	17/01/2019	18/01/2019	1
Seminar on "Recent Trends in Communication and Computing Technologies"	4	15/02/2019	16/02/2019	2
Workshop on "Robotics and Manufacturing Automation"	2	22/02/2019	23/02/2019	2
Training Course in "Basics of AC Drives and Sinamics G120"	2	25/02/2019	26/02/2019	2
<a href="#">View File</a>				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
113	93	121	69

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. Group insurance policy drawn for teaching and nonteaching staff (100).  2. Institute provides immediate fund to staff in case of medical emergency. 3. Institute provides maternity leave to ladies staff 4. Institute provides gratuity scheme. 5. Institute provides residential facility for the staff members. 6. Institute provides Loan facility from staff society</p>	<p>1. Group insurance policy drawn for teaching and nonteaching staff (100).  2. Institute provides immediate fund to staff in case of medical emergency. 3. Institute provides maternity leave to ladies staff 4. Institute provides gratuity scheme. 5. Institute provides residential facility for the staff members. 6. Institute provides Loan facility from staff society</p>	<p>1. Travel facility by college bus is provided for Akole, Sangamner and Sinnar resident students  2. Residential hostel facility is provided. 3. Group insurance policy. 4. Book bank facility 5. Earn and learn scheme</p>

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Yes, the institute ensures an internal and external audit of all its accounts. The accounts are reviewed internally by the account department for proper utilization and queries, if any, are referred to Principal. The external audit is done once in a year by external auditors. No major audit objections were raised in the last audit.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
IEEEAPS Professional body	129422	Annual chapter support and special project for blind and dumb students.
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

464687

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TUVSUD	Yes	AVCOE
Administrative	Yes	TUVSUD	Yes	AVCOE

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

In our college we don't have Parent teacher association but every year by conducting parent meet in our college we try to communicate with parents by giving information about the new activities in college, teaching learning process, placement and try to understand their expectation from college and teacher. We also take feedback from parents regarding facilities provided by college, additional courses conducted for students, so that we can improve in next academic year.

6.5.3 – Development programmes for support staff (at least three)

Patternmaking and sand casting for workshop instructors. Computer maintenance.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

No Data Entered/Not Applicable !!!

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
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2018	Intellectual PropertyArea , Effect and Opportunitie s (AVCOEISHR AE)	18/07/2018	18/07/2018	20/07/2018	33
2018	Intellectual Property Rights (IPR)	25/07/2018	25/07/2018	26/07/2018	35
2018	Field visit	01/08/2018	01/08/2018	12/12/2018	60
2018	Tracking drive	01/08/2018	01/08/2018	14/08/2018	664
2018	Energy enhancement	13/08/2018	13/08/2018	28/02/2019	585
2018	Internal Examination Squad	14/11/2018	14/11/2018	12/12/2018	3276
<a href="#">View File</a>					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Poster Presentation	08/09/2018	08/09/2018	13	8
Group Discussion Competition	24/09/2018	24/09/2018	32	35
Debate Competition	27/09/2018	27/09/2018	5	7
Poster Presentation competition	08/03/2019	08/03/2019	30	32

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<ul style="list-style-type: none"> <li>• Roof top Solar Plant: Institute has installed 400 kw Solar Roof Top PV System as a clean energy project to make the campus ecofriendly. Currently the project has been successfully installed and in running condition.</li> <li>• Percentage of power requirement of the College met by the renewable energy sources: 100</li> </ul>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	4
Provision for lift	Yes	4
Rest Rooms	Yes	4

Braille Software/facilities	Yes	4
Scribes for examination	Yes	0

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	3	01/12/2018	30	Techno Social Activity	Survey for water supply line at Akole, Rajapur and Samsherpur	500
2018	1	1	16/12/2018	8	JAM Watershed	Water Scarcity	9

#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Staff Service Rules and Regulations	01/07/2018	It includes rules and regulations for faculty, nonteaching and supporting staff. The procedure of applying, sanctioning casual leave, duty leave, medical leave and other day to day activities of all staff have been clearly defined.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Moral values Ethics	24/08/2018	24/08/2018	96
Teachers Day	05/09/2018	05/09/2018	350
Engineers Day	15/09/2018	15/09/2018	350
International Yoga Day	21/06/2019	21/06/2019	500

#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Cleanliness in the campus: Cleanliness is maintained in campus and less hazardous waste is generated. The separate outside party is hired for class rooms and passage and hostel cleaning. Garden staff regularly looking after the maintenance of campus and gardens. Students are given awareness through NSS 'Swachha Bharat' campaigns about cleanliness. 2. Solar energy: Institute has installed 400 kw Solar Roof Top PV System as a clean energy project to make the campus ecofriendly. Currently the project has been successfully installed and

in running condition. 3. Green Audit: • Conduction of green audit by regularly checking water quality, noise level and energy consumption also energy audit for checking electrical consumption. 4. Tree Plantation: • Regular tree plantation and maintenance of garden resulted in pleasant atmosphere in campus. • The trees and lawns are maintained with water drips and sprinklers respectively. • NSS and Dandakaranya Abhiyan are creating awareness among the young generation to protect and save the environment. • The NSS, AVCOE appreciated by NSS, SPPU, Pune with trophy and certificate for participation in Guinness book of the record for distribution of Sapling distribution at SPPU, Pune. 5. Bio Gas plant, Composting: Canteen and mess waste food is utilised for the biogas plant and composting.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Title of the Practice "Effective Implementation of Career Development Cell activities." Goal The aim of institute is to, • Give focused training to the students to increase the employability, which results into good placement. • To train the students with soft skills for overall development. • To maintain healthy relations with Corporate for proper Industry Academia Interaction. The Context Amrutvahini College of Engineering, Sangamner lies in Golden quadrangle of Industrial Cities Mumbai, Pune, Nasik and Aurangabad. Hence this point was taken as very positive feature by the institute and started proper interaction with this companies in ways like Delivery of Expert lectures, Internships, Sponsor Projects, Pre Placement Talk, and then Final Placements. But initially there was poor response from the industry, as Corporate were not able to give sufficient time for this activities. But with proper approach from the institute in terms of providing the Finished Products, this was welcomed by Corporate and then after actively participated in institute activities. The Practice Considering the multidimensional 360 degree development of the students, Institute is offering various soft skill programs to the students of all years. Department and Professional agencies/ trainers are putting the efforts for upgrading the skill sets of students. Aptitude Training is specially conducted for Final year Students. For the companies like TCS, MUSigma, CTS, Infosys company specific training is done, in which the exam pattern and most likely questions are taken by third party agency. Online Aptitude is conducted monthly for final year students. Various preplacement activities such as Group Discussion, debate, extempore, technical and general aptitude test, Technical quiz, Mock Interviews etc. are allocated in academic calendar and under the department students association conducted accordingly. Special Training and Placement Officer is appointed who is responsible of training and placement activities. Separate budget is allocated for placement TCS recognized the remarkable efforts of students in TCS on line aptitude test. Institute is TCS accredited. Global competencies have been achieved by arranging foreign language classes. Through third party GATE coaching classes have been conducted for final year students. Competitive examination cell conducts various activities throughout the year. Training programme is conducted for entrepreneurship development. Evidence of Success: Number of students trained for various companies are 586 and total students are placed in industries/organizations. This count is increasing every year as institute is putting more efforts for training conduction. 1. Problems Encountered and Resources Required As the Institute is in rural area, the maximum input i.e. the students come from different culture and rural areas. So the main problem is to enhance the communication and other employability skills. The need to enhance the employability skills is taken as the most important priority of Institute which is very important for successful career of students. Various Third party agencies as resource are appointed by institute for delivery of various Personality Development and Soft skills Programs. Initially Resources

like additional man power for coordinating the department level activities was necessary for proper coordination for achieving long term goals. 2. Notes: Regular planning of industry based training activities are important for effective placements. Training activities plays a crucial role in placements. The purpose of training should be employability skills enhancement required by the companies which leads to good placement. 7.3.2 Best Practice 2 1) Title of the Practice "Buddy Scheme: AlumniStudent Interaction for better student's career." 2) Goal The aim of this best practice is to • To get proper guidance to the students from alumni as younger brother/sister on study, career, technical certifications. • To get expert opinion for initial career requirements and future planning. • To improve the communication skills of the students and create good bonding between students and alumni. 3) The Context Amrutvahini College of Engineering, Sangamner has been started in 1983 and currently sufficient numbers of students are passing out every year. The alumni are working in their field at good and respectable positions. Alumni are always ready to help institution however they don't find time to contribute the institute. This scheme gives opportunity to alumni for contributing to institute by while working and not disturbing their schedule. 4) The Practice: The scheme is working at the student and alumni level. Each department obtains concern from alumni and informs him about allotment of students. Further, student will communicate with alumni and alumni will Guide the students like alumni's younger brother/sister on, 1. How to Study as per Industry demand, 2. Technical certifications, 3. Foreign language, 4. Future Plans, 5. Need of presentation and effective, 6. Importance of in plant training Vacation Internship, 7. Communication, 8. Need of training on latest trends, Students have to meet with alumni personally discuss more on relevant topics, (Once in a semester). Also, provide them some assignments like mini projects, seminar, project etc. After declared the results, properly guide the students about his/her score. Those students fail in some subjects or year down then guide them accordingly. For initial discussion with students, students can ask to alumni for sharing resume and visiting card. 5) Evidence of Success: Number of buddy students connected to Alumni are 1191 each different 1191 alumni who are working in industries/organizations. This count is increasing every year as institute is putting more efforts for alumni meet and alumni interactions. 6) Problems Encountered and Resources Required As the Institute is in rural area, the maximum input i.e. the students come from different culture and rural areas. So the main problem is to enhance the communication and other employability skills. The initial reluctance of students creates problem in communication. The time management of alumni is also critical aspect for success of this scheme. 7) Notes: Alumni Buddy Scheme implemented for the students in which each student is allotted with one alumnus from his engineering stream. The alumni allotted guide the student for the personal development of the student. The alumni with buddy student forms conversation and build students confidence.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.avcoe.org>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

- Sprawling campus spread over 25 acres away from city with calm and pleasant environment, ample greenery and nonpolluting ambience.
- NAAC accredited with A grade.
- Three times accreditation by NBA, New Delhi.
- Institute has ISO 9001:2008 certification.
- Recognition from various survey agencies like
- Five UG courses permanently affiliated to SPPU, Pune.
- Adequate infrastructural

facilities such as ICT enabled classrooms, well equipped laboratories with advanced equipments and machinery, auditorium, playground, hostels and gymnasium. • Well qualified and experienced staff. • Excellent teaching, learning environment. • High speed internet connectivity with a 40 mbps leased line and WiFi campus. • International Universities Collaboration for students and faculty development. • Providing more focus on industry institute interactions. • Establishment of center of excellence in respective engineering disciplines.

Provide the weblink of the institution

<https://www.avcoe.org>

### **8.Future Plans of Actions for Next Academic Year**

- Plan to apply for entrance examination conduction to felicitate admissions of high JEE/MHCET merit students and provide a curricular and extracurricular campus ambiance.
- Planned achievement of Programme outcomes and course objectives.
- Starting of Amrutsamvad and Amrutmanthan series to develop self confidence in students.
- Alumnistudents mentorship programme for project and buddy scheme
- To motivate students for startups and empowering selfemployment and
- Brand building activities for AVCOE.
- Initiation and structuring the research culture in AVCOE by organising International, National and state level events as well.
- To implement procure and deploy UBA/UMA/PMKVY/AICTE /BCUD /DST/UGC grants from Government and other sources.
- Introduction and planning for value addition technical and Soft Skills development courses using AVCOE's infrastructure.
- GATE and competitive exam Coaching and orientation to develop culture.
- Services offered and provided outside such as Offer lab. Facilities, projects and product development for other institutes and industry.
- Consultancies in various areas offered.
- Planned purchase of equipment's for Mechanical/Production/Computer Engineering.
- Organize inter institute cultural event "MEDHA2018"
- development of State of the Art FMS Lab
- To develop Centre of Excellence in ANSYS, PBL, PLM
- To increase student members for ISHRAE, QCFI student chapters
- Initiative for campus reformation
- 1. Clean campus drive
- 2. Sewage water treatment plant
- 3. Tree Plantation, Rain water Harvesting.
- Governance of ethical and moral activities
- Under QIP -BCUD workshop, seminar at national international and state level.