Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**AKHIL BHARATIYA MARATHA SHIKSHAN PARISHAD PUNE ANANTRAO PAWAR COLLEGE OF ENGINEERING AND RESEARCH**
Name of the head of the Institution	**Sunil Bhimrao Thakare**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**020-24218959**
Mobile no.	**9923217056**
Registered Email	**prof_sbthakare@rediffmail.com**
Alternate Email	**abmspcoe@yahoo.com**
Address	**S. No. 103, Shahu College Campus, Parvati, Pune**
City/Town	**Pune**
State/UT	**Maharashtra**

Pincode	**411009**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Shailesh S. Hajare**
Phone no/Alternate Phone no.	**02024218901**
Mobile no.	**9579707373**
Registered Email	**iqac@abmspcoerpune.org**
Alternate Email	**naac@abmspcoerpune.org**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.abmspcoerpune.org/IQAC/aqar_18-19.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.abmspcoerpune.org/Downloads/AC/Academic%20calender%202019-20%20sem_I.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B**	**2.35**	**2018**	**16-Aug-2018**	**15-Aug-2023**

6. Date of Establishment of IQAC	**03-Aug-2017**

7. Internal Quality Assurance System

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
Preliminary Audit	21-Jun-2019 2	62
A Seminar On Recommendations for Examination Reforms Guidelines by All India Council for Technical Education	03-Jul-2019 2	68
Engineers Day	17-Sep-2019 1	50
one day workshop on Introduction to Virtual Laboratory	25-Sep-2019 1	65
Academic and Administrative audit	18-Sep-2019 10	75
Expert Session on Roles & Responsibilities of Engineers in Industry A Innovative Approach by Dr. Ashok D. Saraf	25-Sep-2019 1	80
Academic and Administrative audit	24-Nov-2021 7	75
Meeting for Draft of Academic Calendar	02-Dec-2019 1	10
One day workshop on Arduino, a Course in the IoT Series organized at Anantrao Pawar College of engineering and research Remote Centre RCID 1431	08-Feb-2020 1	40
Expert session on Opportunities in Canada for Higher Education & Immigration in Association with IIT Bombay Alumni Association and IIT Alumni Canada	12-Jan-2020 1	160
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8. Provide the list of funds 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
Institution	Workshop	Savitribai Phule Pune University	2019 365	100000
Department	Workshop / Symposia	Science and Engineering	2019 365	75000

		Research Board, Government of India		
Faculty	BCUD, SSPU, ASPIRE	BCUD, Savitribai Phule Pune University	2019 730	230000
Faculty	BCUD, SSPU, ASPIRE	BCUD, Savitribai Phule Pune University	2019 730	24000
Faculty	BCUD, SSPU, ASPIRE	BCUD, Savitribai Phule Pune University	2019 730	21000
Faculty	BCUD, SSPU, ASPIRE	BCUD, Savitribai Phule Pune University	2017 730	300000
Faculty	BCUD, SSPU, ASPIRE	BCUD, Savitribai Phule Pune University	2017 730	300000
Faculty	BCUD, SSPU, ASPIRE	BCUD, Savitribai Phule Pune University	2017 730	240000
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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 :	**2**
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)	

- Academic Administrative Audit (AAA) is conducted and its follow up action is taken to improve the academic practices at all departments and administrative

practices. All academic activities are conducted as per Academic Calendar through IQAC. • Plan of action for implementation of ISO 9001:2015 at Institute is initiated. • Project Guidance Field visits for students through Innovation Club Members. • Motivate Encourage faculty members to participate for research grants schemes such as ASPIRE, SERB with RD Coordinator of our Institute. • Encourage faculty for Industry Institute interaction for applying industrial projects, consultancy and Research grants. • To create awareness among students about various facets of entrepreneurship as an alternative career option.

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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
Training to students from various industries and interaction of alumni with students to promote capability enhancement	Progressive index of placements and Active participation of alumni towards students
Dissemination of student support system	Induction program is conducted for First Year students to create awareness about the existing student support systems at our Institute
Use of ICT based learning for students	Various training programs have been conducted for the faculty members and students to use ICT tools like MOODLE, teaching learning process.
IoT lab setup by Indicus software pvt.ltd. and IoT based Poly-house project is in process	As per the requirement of revised syllabus, various new books and journals have been purchased for library for all the disciplines. IoT based Poly-house- In process (Continuo server is in working status in IoT Lab & faculty have attended training on it.
Activities under IIT-B remote centre under NMEICT for Teachers empowerment through various courses from IIT Bombay and E-Yantra Lab setup by IIT Bombay	Promotion of active learning and Task Based Training is Completed by Faculty (04) members of our institute.
Faculty Development Program	Faculty development program such as seminar/workshops were organized by Institute.
Project Guidance from Innovation members	Student's research groups with innovation Club Members have been constituted at the Institute level to enhance the research culture.
Motivate and mentor Faculty to register for PhD Programme and research work.	Research and Development (R & D) cell of the Institute has conducted various activities to create awareness amongst faculty members and students to convert their innovative ideas and experimental research work into projects,

| Content Beyond Syllabus | Syllabus gaps are identified and fulfilled for all subjects through guest lecture, Industrial visits. |
| To motivate faculty members from all the departments to participate in revision of SPPU curriculum. | Faculty members participated in various syllabus revision workshop and syllabus drafting process for SPPU revised curriculum. |

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14. Whether AQAR was placed before statutory body ?	**No**
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	**2020**
Date of Submission	**20-Jan-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**In our institute institutional records are maintained by Vriddhi ERP system which integrates all data and processes. It is a comprehensive Education Information Management Software used by our institute to streamline our entire organization and functioning. It provides technology solutions for better education management. 1. Student Module • Admission Management For new admission of students staff just needs to add details of the new student into the college admission system. Then these details can be used for further actions and these details can be changed very easily whenever required using this system. Admission management software creates unique ID for every student automatically with every new entry. • Online Admission System Once the student login on online admission system website, he/she can enter all their admission form details on online admission system website and submits admission form only through online mode. Each student gets unique online**

transaction ID. After collecting fees his admission receipt will be generated from college, once receipt is collected by student it is updated in Fees Management software. • Fee Management It handles fees related data of every student. • Student Management Student information system is a software application which helps us to manage students' data. Module is integrated with all other modules such as Library Automation software, Fee management software. Certificates like TC/LC can be generated using this module. 2. Employee Module In this Payroll software, a unique ID is provided to each employee. Working types can be Permanent, AdHoc. Personal information like first name, middle name, last name, caste, religion, date of birth, gender, marital status, father / mother / husband name, children detail, other family details, permanent and correspondence address, contact details, email address, blood group, disability if any, identity mark etc. is kept into the system for further use. Leave records of employees are available on ERP. 3. Library Module To reduce manual intervention, this Library Module is really helpful tool which can bring the evolutionary change into the Library automation Software and makes the transactions fast and secure. • Membership Membership can be provided to every student and faculty members. By using the member's data from college management system software librarian can generate the ID card for the member. Library management Software generates a Bar Code for the member which is helpful for future transactions. This library automation software helps to keep track of all the existing books. There is a unique Id for every book. Bar code helps in Issuereturn functionality. • OPAC Library Automation Software Online Public access catalog provides search option for student by Title, Author, Publisher, Book Editor, Edition Year, and Subject. • OPAC Library Management System It provides Search option by Accession No., Title, Author, Publisher, Place, Book Editor, Editor, Invoice etc. for librarian. It has library functionalities like Book Accession, Periodical Accession, etc.

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

While revision and up gradation of the syllabi is done at the University level, the college has a mechanism for effective, documented curriculum delivery. The institution has developed a structured and effective implementation of the curriculum. Following are the various means through which it executives the curriculum. Principal Meeting: Such meetings are held once in a month. Academic Calendar: Academic Calendar is prepared by IQAC as per the Savitribai Phule Pune University academic schedule and department as well as institute level action plans. At the commencement of each academic year, every faculty member provides individual teaching plans and reading lists for each course to the students. Curriculum delivery is adhered to teaching plan, so that the student is able to get clarity about what portion of the curriculum will be delivered within the stipulated time frame. These teaching plans are also preserved each year as documentation. Besides traditional lectures and seminars, infrastructure for the use of ICT in classrooms, like power point presentations, smart boards and audio-visual support are all available to make the delivery of the curriculum enabling and interesting for the students. In some departments, bridge courses or supplementary courses are held in order to make the curriculum delivery more holistic and effective. Tutorials are held with mentoring and participative learning. Internal assessment is done transparently with examined scripts shown to students. Inter-personal skills are enhanced through Value Education.

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
3 Days Workshop on Aerodynamics ad Electric Car Technology (MECHANICAL ENGINEERING DEPARTMENT)	Nil	06/09/2019	3	Employability	Yes
One day Training Program on Automotive Technics(MECHANICAL ENGINEERING DEPARTMENT)	Nil	29/08/2019	1	Employability	Yes
Indian 7 I	Nil	31/05/2020	1	Employability	Yes

nternational Automotive Regulation overview				ity	
Scientific Paper writing	Nil	15/02/2020	1	Employabil ity	Yes
How to prepare competitive exams	Nil	07/02/2020	1	Employabil ity	Yes
Career Guidance	Nil	07/02/2020	1	Employabil ity	Yes
Entreprene urship	Nil	07/02/2020	1	Entreprene urship	Yes
How to prepare GRE and Toffel exam	Nil	06/01/2020	1	Employabil ity	Yes
Android Technologies	Nil	30/07/2019	1	Employabil ity	Yes
Entreprene urship Awareness camp	Nil	02/01/2020	3	Entreprene urship	Yes
Implementa tion of agile methodology using scrum	Nil	29/06/2019	3	Employabil ity	Yes
5 days workshop on IOT (Information Technology)	Nil	15/07/2019	5	Employabil ity	Yes
FDP on Moodle Learning Management System in Association with IIT Bombay	Nil	05/05/2020	6	Entreprene urship	Yes
Smart Use of Virtual Laboratory	Nil	28/04/2020	2	Employabil ity	Yes
3 Days workshop on Embedded System Design using MSP430 IOT	Nil	20/05/2020	3	Employabil ity	Yes

| Placement preparation Opportunities in the Field of Data science | Nil | 14/03/2020 | 1 | Employability | Yes |
| Smart use of virtual Laboratories | Nil | 28/04/2020 | 2 | Employability | Yes |

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	First Year of Engineering (All branches) 2019 Course	05/08/2019
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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	First Year of Engineering (All branches) 2019 Course	05/08/2019
BE	Civil Engineering	17/06/2019
BE	Computer Engineering	17/06/2019
BE	Electronics and Telecommunication Engineering	17/06/2019
BE	Information Technology	17/06/2019
BE	Mechanical Engineering	17/06/2019
ME	Civil Environmental Engineering	01/07/2019
ME	Mechanical Design Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	757	Nil

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
Green Energy	15/06/2019	27
Cyber and Information Security	15/06/2019	9
Embedded System Design using MSP430	16/12/2019	9

CYBER CRIME AND LAW	16/12/2019	12
Road Safety Management	15/06/2019	12
101007:Environmental Studies -I	15/06/2019	91
101014:Environmental Studies-II	01/01/2020	91
STUDENT INDUCTION PROGRAMME	05/08/2019	91
Road Safety	15/06/2019	68
Stress Relief: Yoga and Meditation	16/12/2019	68
	[View File](#)	

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	MECHANICAL ENGINEERING	4
BE	CIVIL ENGINEERING	4
ME	Mechanical Design Engineering	2
ME	Civil Environmental Engineering	15
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	No
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

The institution collects the feedback on curriculum aspects and courses from different stakeholders such as the students, Faculty and Parents. Institution established Internal Quality Cell Assurance Cell in order to ensure and analyze the academic excellence at student and faculty levels. Periodical analysis is made by IQAC from the following: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality enrichment in our Institute. Anantrao Pawar College of Engineering Research thoroughly reviews the curriculum delivery and assessment of academics for every academic year. The IQAC regulates quality consistence and quality enhancement measures for institute. All departments and existing committees reinforced the curriculum by incorporating updated information and address the social issues by performing various activities under IQAC. The institute makes efforts to integrate socially relevant issues into the curriculum with the help of the different cells functioning in the institute like Anti-Ragging Cell,

Reservation Grievance Cell, NSS, and Mentor-Mentee Schemes. Actions initiated on Feedback by Stakeholders: After collecting and assessing the feedback from the various stakeholders on curriculum aspects, the appropriate suggestions will bring to the notice of respective Board of studies of Savitribai Phule Pune University for possible changes in the course structure for the next curriculum revision. The institute follows a continuous review system of the curriculum Defined by Savitribai Phule Pune University. The institute established an IQAC cell as a Quality sustenance and Quality enhancement measure. The IQAC has been infusing a sense of belongingness into the entire teaching faculty of the Institution. The functioning of various committees of the institute strengthens the quality sustenance and enhancement measures to ensure the effective development of curricula. The Academic Audit Committee ensures quality enhancement academic process. IQAC has been organising Faculty Development Program every year to enhance the professional competency and teaching pedagogy of the faculty. Curriculum enrichment is executed by giving the activities to produce innovative and novelty oriented student conferences, projects and mini projects under expert guidance of institutional innovation club. Students are also motivated to get participation in various state and national, international technical events organised by reputed professional bodies or institutions. So that students can be enriched themselves in professional and ethical values of engineering profession along with lifelong learning and social values.

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
ME	Mechanical Design Engineering	24	15	8
ME	Civil Environmental Engineering	24	26	17
BE	Electronics and Telecommunication Engineering	60	15	3
BE	Information Technology	60	35	29
BE	Computer Engineering	60	53	49
BE	Mechanical Engineering	60	10	Nill
BE	Civil Engineering	60	27	7

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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	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG

	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2019	769	54	53	5	4

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	Numberof smart classrooms	E-resources and techniques used
67	67	19	15	Nill	11
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

In our institution, mentoring system has been introduced in coordination with IQAC, for establishing a better and effective relationship between student and teacher and also continuously monitor, council and guide students in educational and personal matter. All faculties work as mentors for students assigned to them. This is a continuous process till the end of academic career of student. The aim of student (mentee) mentor-ship is – 1. To enhance teacher –student relationship. 2. To enhance student's academic performance and attendance. 3. To minimize student's dropout ratio. 4. To monitor the student's regularity and discipline. 5. To enable the parents to know about the performance of regularity of wards. The IQAC had taken the initiative of implementing the mentoring of students. Students are based on the streams of studies and also according to their core subjects. They are divided into groups of 20-25 students and alloted to the mentor. Respective Head of Department will review effective implementation of system by all mentors of his/her department at least once in a month. Advice mentors wherever necessary. Type of mentoring done in our institution are 1. Professional Guidance – Regarding professional goals, selection of career and higher education. 2. Career Advancements – Regarding self-employment, entrepreneurship development, opportunities, morale, honesty, integrity required for career growth. 3. Coursework Specific – Regarding attendance and performance in present semester and overall performance in the previous semester. 4. Laboratory Specific – Regarding Do's and Dont's in the laboratory. Outcomes of the system i) The attendance percentage of the students has increase to greater extend. ii) The number of detainment of students has decrease consistently. iii) Due to direct communication between mentor and the student, there was good improvement in student-teacher relationship

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
823	58	1:14

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
67	38	29	30	5

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	Nill	Assistant Professor	Nill

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	SE Information Technology	4	27/04/2020	20/07/2020
BE	SE Information Technology	3	05/11/2019	22/02/2020
BE	SE Electronics and Telecommunicati on Engineering	4	27/04/2020	20/07/2020
BE	SE Electronics and Telecommunicati on Engineering	3	05/11/2019	22/02/2020
BE	SE Computer Engineering	4	27/04/2020	20/07/2020
BE	SE Computer Engineering	3	05/11/2019	22/02/2020
BE	SE Civil Engineering	4	27/04/2020	20/07/2020
BE	SE Civil Engineering	3	05/11/2019	22/02/2020
BE	FE	2	27/04/2020	29/07/2020
BE	FE	1	05/11/2019	20/01/2020

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

The Institute is affiliated to Savitribai Phule Pune University(SPPU), Pune and follows the Examination pattern of the university. SPPU guidelines are strictly adhered with respect to evaluation process. Internal tests are conducted as per academic calender. The schedules of internal assessments are communicated to students and faculties in the beginning of the academic year and semester through institute academic calendar which is prepared based on the university academic calendar. The institute has reformed the continuous internal evaluation system from faculty centric to student centric. The Institute Exam cell framed guidelines for conducting the CIE in line with calendar of the SPPU. There are the evaluation examinations of the affiliating university such as Online MCQ Tests for First and Second year, In-semester Exam for first, third and final year, PR/OR exams and End-Semester exam for all. The institute has to ensure that the students are ready for these examinations. Thus, Unit tests and Prelim Examination (objective and subjective) are planned before commencement of each semester. Also, to promote students learning and involvement in extra-curricular activities term work norms are prepared well in

advance. The institute has defined set of internal assessment scheme. SPPU Evaluation reforms: • The CEO and Examination Committee schedules and executes the evaluation process with strict monitoring on regular basis. • The Principal also takes review of the progress in weekly HOD meetings. • Internal squad comprising of senior faculty members oversees the smooth conduction of university theory examination. • CCTV cameras are deployed at exam cell and some laboratories to monitor the examinations Internal evaluation reforms: • Each department has Examination Coordinator for smooth conduction of Internal Examinations. The results of each test are strictly declared within a week of the conclusion of the test. The students can see their respective answer sheets and discuss their queries with concerned faculty. • The CIE is done throughout semester and term work evaluation is done at the end of semester, based on CIE. FE (In semester: 30 Marks End semester: 70 Marks) SE (Phase I Phase II: 30 Marks End semester: 70 Marks) TE (In semester: 30 Marks End semester: 70 Marks) BE (In semester: 30 Marks End semester: 70 Marks) ME (In semester: 50 Marks End semester: 50 Marks) Continuous Assessment The APCOER believes firmly in continuous evaluation of the students for their sustained performance. Hence a structured evaluation process has been designed and implemented. The internal examination are prepared and conducted as per the University examination pattern. To prepare students for practical and oral examinations, institute conducts mock Oral/Practical exams. The institute conducts unit tests, Prelim Exam, Mock Online MCQ Tests and Mock PR/OR Exams appropriately as per the requirement of the concerned syllabi of different classes.

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

Institution prepared a Academic Calendar as per the scheduled prescribed by the Savitribai Phule Pune University for implementation of Curriculum and participation in Extracurricular and co-curricular Activities. As per university rules and regulations academic activity run in institute throughout the year. At the beginning of session institution prepared an academic calendar to organise the curricular and extracurricular activities in the institution. In academic calendar institute adhered to available working days, short and long Holidays, National Public holidays, Admission process, Semester wise Teaching Plans, Tentative University Examination days of semester, Tentative practical examination days, allocation of Internal Assessment work i.e. Seminar activity, Project Assignment, Theory Assignment , Class tests, Practical assignment, Submission of Internal Assessment work, ICT Lectures, Guest Lectures, Celebration of National Science day, Celebration of various Birth and Death Anniversary, celebration of weeks like wild life, sampling plantation etc. and special days, Departmental unit tests, Educational tours, Departmental stock verification, various Literacy days, Awareness Programmes and rallies, workshop / seminar activity are planed month wise and makes implementation on it. As per academic calendar Institution follows all the related curricular, Co-curricular and Extra-curricular activities for the better academic work. As per academic calendar institution Participated in the Extra- curricular activities like participation in Athletics, participation in Youth Festival, Participation in Inter-collegiate sport competitions like cricket, kabaddi, chess, badminton, table tennis organised by the affiliating university and nearby institutes. Besides this institute arrange some curricular and co-curricular activities casually as per the guidelines suggested by the State Government of Maharashtra time to time. Institute tries to run all the activities as per the academic calendar but some time due to circumstances some events scheduled gets change. Finally this is distributed to the departmental teachers and the students and also made available on college Website. The effectiveness of the process is maintained through effective monitoring by the Principal and Head of the Departments. The Principal sees to it that all departments follows academic calendar. The college has a vibrant culture of instilling inquisitiveness and

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.abmspcoerpune.org/CO-PO.aspx

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
Civil Environmental Engineering	ME	Civil Environmental Engineering	14	14	100
Mechanical Design Engineering	ME	Mechanical Design Engineering	13	13	100
Information Technology	BE	Information Technology	16	16	100
Civil Engineering	BE	Civil Engineering	43	43	100
Electronics and Telecommunication Engineering	BE	Electronics and Telecommunication Engineering	22	22	100
Computer Engineering	BE	Computer Engineering	65	65	100
Mechanical Engineering	BE	Mechanical Engineering	48	48	100

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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://abmspcoerpune.org/NAAC_AQAR19-20.aspx

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
Any Other (Specify)	365	SPPU	1	1
Any Other (Specify)	365	SERB-Gov. of India	0.75	0.75
Projects	730	BCUD , SPPU	2.3	0

Projects sponsored by the University				
Projects sponsored by the University	730	BCUD , SPPU	0.24	0
Projects sponsored by the University	730	BCUD , SPPU	0.21	0
Projects sponsored by the University	730	BCUD , SPPU ASPIRE	3	1.5
Projects sponsored by the University	730	BCUD , SPPU ASPIRE	3	1.5
Projects sponsored by the University	730	BCUD , SPPU ASPIRE	2.4	1.2

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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
One Week National Level Workshop/Symposia on Emerging Trends in Electrical Vehicle Technology: Opportunities Challenges by SERB	Mechanical Engineering	11/02/2020
One day Workshop on Intellectual Property Rights	Mechanical Engineering	20/02/2020
One Day Workshop on CNC Programming	Mechanical Engineering	17/05/2020
Electric Vehicle- Career Business Opportunity	Mechanical Engineering	26/05/2020
Two days state level workshop/Blockchain Technology	Information Technology	18/12/2019
5 Days Workshop on INTERNET OF THINGS	Electronics and Telecommunication Computer Information Technology DepartmentsT	19/07/2019

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
0	0	0	Nill	0

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

Incubation	Name	Sponsered By	Name of the	Nature of Start-	Date of

Center			Start-up	up	Commencement
0	0	0	0	0	Nill
			View File		

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
0	Nill

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)
International	Mechanical Engineering	5	7.87
International	Civil Engineering	12	4.36
		View File	

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
Computer Engineering	1
Civil Engineering	1
Information Technology	1
	View File

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
Stress Analysis of Crane Hook with Different Cross Section Using Finite Element Method	Ashish Pawar, Dr. Kashinath Munde	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	3	Anantrao Pawar College of Engineering Research, Pune	2
Effect of Various Defects in Roller Bearings	Ganesh Kondhalkar	Springer	2019	1	Anantrao Pawar College of Engineering	1

Title of the Paper	Name of Author	Title of journal	Year of publication		Number of citations	Institutional affiliation as mentioned in the publication
and Ball Bearings on Vibration					Research, Pune	
System Reliability, Quality Control, Safety, Maintenance and Management: Applications to Electrical, Electronics and Computer Science and Engineering	Ganesh Kondhalkar	International Journal of Engineering Research and General Science	2019	2	Anantrao Pawar College of Engineering Research, Pune	2
Design Analysis of Multi-Frame for Octo Quad Copter Drones	Ganesh Kondhalkar	Int. Res. J. Eng. Technol.(IRJET)	2019	1	Anantrao Pawar College of Engineering Research, Pune	1
An experimental?based python programming for structural health monitoring of non?engineered RC frame	S.B.THAKARE	Innovative Infrastructure Solutions	2019	6	Anantrao Pawar College of Engineering Research, Pune	6
Big Data Disruptive Computing Platforms Braced Internet of Things: Facets Trends	Dhanashri P. Joshi	Internet of Things, Smart Computing and Technology: A Roadmap Ahead, Springer	2020	2	Bharati Vidyapeeth (Deemed to be University) College of Engoineering, Pune	2

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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
Big Data		Internet	2020	1	2	BVUD

Disruptive Computing Platforms Braced Internet of Things: Facets Trends	Dhanashri P. Joshi	of Things, Smart Computing and Techno logy: A Roadmap Ahead				COE, Pune
An exper imental?ba sed python programmin g for structural health monitoring of non?eng ineered RC frame	S.B.THAK ARE	Innovative Infrastruc ture Solutions	2019	5	6	APCOER, Pune
Design Analysis of Multi- Frame for Octo Quad Copter Drones	Ganesh Kondhalkar	Int. Res. J. Eng. Techn ol.(IRJET)	2019	2	1	APCOER, Pune
ICICCT 2 019-System Reliabilit y, Quality Control, Safety, Ma intenance and Manage ment: Appl ications to Electri cal, Elect ronics and Computer Science and Engine ering	Ganesh Kondhalkar	Internat ional Journal of Engineerin g Research and General Science	2019	2	2	APCOER, Pune
Effect of Various Defects in Roller Bearings and Ball Bearings on Vibration	Ganesh Kondhalkar	Springer	2019	2	1	APCOER, Pune
Stress Analysis of Crane Hook with	Ashish Pawar, Dr. Kashinath Munde	Journal of Emerging T echnologie s	2019	2	2	APCOER, Pune

Different Cross Section Using Finite Element Method	s and Innovative Research (JETIR)			

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	13	84	50	40
Resource persons	Nill	1	Nill	Nill

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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
Flodd Victim Donation Drive	NSS	1	40
Swachhata Campaigning during Ganpati Festival	NSS	1	30
Fit India	NSS	3	45
Tree Plantation	NSS	12	39
Anti-Tobaco Pledge	NSS	3	63
International Yoga Day	NSS	24	100
Guiness World Record	NSS	1	48
Nirmal Wari at Bhawai Peth	NSS	1	30
Nirmal Wari at Saswad	NSS	1	30
Nirmal Wari at Natepute	NSS	1	35

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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
0	0	0	Nill

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 activites	Number of students participated in such activites
Scientific Paper Writing	Student Welfare Development	Scientific Paper Writing	2	80
One Day Workshop on Solar Energy	Student Welfare Development	One Day Workshop on Solar Energy	2	72
Intellectual Property Rights	Student Welfare Development	Intellectual Property Rights	2	92
Mobile Repairing	Student Welfare Development	Mobile Repairing	2	35
Earn and Learn	Student Welfare Development	Earn and Learn	2	12

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
Academic Project PG	2	Sponsored Project	365
Academic Project PG	2	Internship	45

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 institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Faculty Training	Training	Science Technology Park	09/12/2019	20/12/2019	Dr. Balaji S. Selukar
Faculty Training	Training	Science Technology Park	09/12/2019	20/12/2019	Prof. Sarangkumar Dubey
Faculty Training	Training	UL Automation Pvt. Ltd.	13/05/2019	03/06/2019	Prof. Vikram Ghiye

Faculty Training	Training	g2G Innovation LLP, Pune	16/12/2019	31/12/2019	Prof. Ashish R. Pawar

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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
Jain Irrigation	11/10/2020	Polyhouse Project Equipement and Facility Supply and Service	30
Dolphin Lab	11/07/2020	Collaborative Programs of Mutual Interest	130
UL Automation Pvt. Ltd.	09/01/2020	Collaborative Programs of Mutual Interest	1
Andy Infosec Pvt. Ltd.	10/01/2020	Collaborative Programs of Mutual Interest	100

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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
0	0

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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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
VRIDDHI	Fully	2.0 Build 260.3 full version	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4226	1467522	63	24774	4289	1492296
Reference Books	263	178234	35	26470	298	204704
e-Books	2170	13570	2170	13570	4340	27140
Journals	43	103328	43	101948	86	205276
e-Journals	7853	70800	8010	72216	15863	143016
Digital Database	1	28800	1	28800	2	57600
Library Automation	1	78750	Nill	Nill	1	78750
Others(specify)	5048	1955024	227	109467	5275	2064491

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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
0	0	0	Nill
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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 (MBPS/GBPS)	Others
Existing	468	22	48	1	1	1	6	48	0
Added	0	0	0	0	0	0	0	0	0
Total	468	22	48	1	1	1	6	48	0

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

48 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
0	[0](0)

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 academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
3.55	2.51	16	5.62

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)

Maintenance of Laboratory Equipments: Codify Laboratory equipments. Determine frequency and parameters for preventive maintenance of equipment. Carry out Preventive maintenance/Calibration (As applicable) and maintain records. In case of breakdown, repair fault internally and/or with the help from external agency. Maintain record of breakdown maintenance carried out. At the end of semester, collect the data related to breakdowns, identify major and/or repetitive failure, analyze and initiate necessary actions to eliminate recurrence. Maintenance of Library: Ensure that library book shelf is clean every time so as to avoid dust accumulation and verify it. Place naphthalene balls in the book shelf. Carry out cleaning every day and verify it Internal stock verification of books is carry out internally once in year. Prepare a list of untraceable books. Identify number of books Lost, damaged, and weeded out. Forward the report to higher authority for further actions. Book which is not available for three consecutive verification, will be treated as missing. Initiate further action as per directives by higher authorities. Maintenance of Student Property: Following documents (whichever applicable) are retained at student section. Original- DTE Verification/ 1 year whichever is later. Mark sheet:- (SSC, HSC, Diploma Final Year, BE Final Year. CET/ JEE/ Gate- Score Card/ Mark Sheet. School Leaving/Transfer Certificate (Diploma, HSC, BE) Migration Certificate Caste Certificate, Cast validity, Non-Creamy layer Domicile Certificate, Nationality Certificate. Gap Certificate Preserve check the Student property till retention period. Maintenance of Student admission details: Enter student details in students General Register communicate General Register No. After complete of the Course / Cancellation of admission before course duration issue LC/TC Ensure the Submission of the Student property Decide the action to be taken after its retention period Maintenance of Outsourced activity: Decide the processes to be outsourced considering the requirement of Institute. Presently following service is outsourced: Annual Maintenance Contracts of VRIDHI library software, D.G. Genset, R.O. Plant House Keeping Identity the suppliers of outsourcing services, discuss the rates of services and finalize the suppliers. Prepare list of outsource suppliers and compare the same. Prepare the work order for the outsourced activity and take approval from Principal and Management. Call the suppliers as per the need, explain the work to be carried out. Supervise the suppliers' work. Verify the work is done as per the requirements and upto satisfaction. Release the supplier's payment for the work done. Maintenance of Department Of Physical Education and Sports: Maintenance of ground for various games by continues monitoring of the ground by Security AMC.: Cleaning and watering, rolling, grass cutting Ground marking with powder as per requirement of games. Providing and maintaining all necessary facilities for students to ensure uninterrupted play also to rectify availability of sports equipment time to time. To keep

record of equipment transaction in inward outward register. To verify the state of equipment provided while receiving. If case of ware and tare of equipment, repairing is done as per requirement All the equipment's are checked and sealed every day before leaving the dept. by physical director.

http://www.abmspcoerpune.org/NAAC_AQAR19-20.aspx

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	0	0	0
Financial Support from Other Sources			
a) National	Pragati Scholarship, Yuvak Kalyankari Yojna	4	40000
b)International	0	Nill	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
INDIAN AND INTERNATIONAL AUTOMOTIVE REGULATIONS OVERVIEW	30/05/2020	87	FIAT CHRYSLER AUTUMOBILES INDIA
one day workshop on ELECTRIC VEHICAL -CAREER AND BUSINESS OPPORTUNITY	26/05/2020	344	MEHETRE INDUSTRIESE PUNE WITH A MECHANICAL DEPARTMENT
one day workshop on CNC programming	17/05/2020	288	Department of mechanical engineering
online quiz on industrial engineering	09/05/2020	530	Department of mechanical engineering
Remedial Coaching	21/11/2019	34	APCOER, Pune(ONLINE FOR BACKLOG STUDENTS)
Entrepreneurship Awareness Camp	02/01/2020	100	APCOER, Pune, Science and Technolgy Park and NSTEDB, Department of Science and Technology, Govt. of India
One day workshop	18/03/2020	27	Mr. Yashwant

on IOT and Raspberry PI			Chavan ATOS India PVT. LTD.
Java Programming	26/05/2020	181	Spoken Tutorial, IIT Bombay
Yoga Day	21/06/2019	100	APCOER, Pune
Personal Counselling	12/08/2019	650	APCOER, Pune

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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 passedin the comp. exam	Number of studentsp placed
2019	Training and Placement, Competitive Examination/ Career Counselling	1	190	1	40

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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
Nill	Nill	Nill

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Prolifics corporation limited, TCS, Sankey Solution, IBM, Bharat Forg Limited, Date and Company, Qspider, Codeites	392	37	Persistent, Infra Soft, Plutozy	17	3

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	Civil Engineering	MIT School Of Engineering , Loni, Kalbhor	M.Tech in Civil Engineering
2019	1	BE	Computer Engineering	George Mason University, USA	MS in data analytics engineering at George mason university

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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
GRE	1
TOFEL	1

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

Activity	Level	Number of Participants
Tug of war	Institute Level	36
throwball	Institute Level	48
singing	Institute Level	15
flashmob	Institute Level	40
dance	Institute Level	35
volleyball	Institute Level	48
carrom	Institute Level	24
shortput	Institute Level	61
Kabbadi	Institute Level	67
Cricket	Institute Level	90

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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Nill	National	Nill	Nill	Nill	Nill

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

Student council is formed in Institute as per norms laid by Government of Maharashtra and Student Development Department of SPPU. Student Council consists of Chairman, Student Development Officer, N.S.S. Coordinator, Director of Physical Education, Students Nominated from Sports, NSS, Cultural activities and Female Student members are nominated by Principal and other faculty members. The main purpose to form the Student Council is to involve and motivate students to participate in academic, co-curricular extracurricular activities. This also improves student's qualities like planning, organizing, analyzing, estimating and executing along with trouble shooting which help in their overall development. Institute along with management always provides necessary support to the council members in organizing and coordinating events. It encourages the students to develop their leadership skills through these activities. Students who are actively participated in such events always helps them in real life to become leaders and competent managers in future, also in different administrative areas. The institute has formed ISTE (Indian Society for Technical Education).All the cultural and technical activities are executed under the umbrella of the ISTE. Constitution of the ISTE 1. President 2. Vice President 3. Heads of different committees such as Promotion, advertising. 4. Volunteers. The committee of the ISTE is formed by the transparent selection process and as per the norms laid by the ISTE. The Selection Committee comprises of Principal, ISTE Faculty coordinators, Student Development Officer, all the Head of the Departments and PG Coordinators. Cultural events such as Chocolate day, Traditional day mismatch day are organized and technical events such as Gaming Competitions Robo war, Seminars, Paper Presentations and Poster Presentation etc are part of the annual technical and cultural event SPARK TECH. Students take active participation in these events and the ISTE team takes the lead in smoothly organizing all these events. The institute has formed ISTE (Indian Society for Technical Education).All the cultural and technical activities are executed under the umbrella of the ISTE. Constitution of the ISTE 1. President 2. Vice President 3. Heads of different committees such as Promotion, advertising. 4. Volunteers The committee of the ISTE is formed by the transparent selection process and as per the norms laid by the ISTE. The Selection Committee comprises of Principal, ISTE Faculty coordinators, Student Development Officer, all the Head of the Departments and PG Coordinators. Cultural events such as Chocolate day, Traditional day mismatch day are organized and technical events such as Gaming Competitions Robo war, Seminars, Paper Presentations and Poster Presentation etc are part of the annual technical and cultural event SPARK TECH. Students take active participation in these events and the ISTE team takes the lead in smoothly organizing all these events.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association has been formed at Anantrao Pawar College of Engineering and Research, Parvati, Pune as per the norms laid down by Government of Maharashtra and Savitribai Phule Pune University. Alumni Association is registered on 21/08/2018 with Charity Commissioner Pune adhering to the Rules and Regulations from the said competent authority. Registration Number is MH/1146/2018/PUNE. Alumni Association is formed with following members: • President: Student Development officer of the Institute • Vice President: Head/Senior Faculty member • Secretary: Alumni Association Coordinator • Member Student representative from Civil Engineering Department (UG) • Member Student representative from Computer Engineering Department (UG) • Member Student representative from Electronics and Telecommunication Engineering Department (UG) • Member Student representative from Information Technology Engineering Department (UG) • Member Student representative from Mechanical Engineering

Department (UG) • Member Student representative from Civil Engineering Department (PG) Objectives of the Alumni Association • To Mentor the students of the college for higher education, development of professional ethics and social awareness. • To encourage the students of the college, members of the Association for research development work in various fields of Engineering. • To arrange and support in placement activities for the students • Promote the industry institute interaction to bridge the gap between industry requirements and education offered to improve students' employability opportunities. • To encourage and guide the students of the college on self employment and to become successful entrepreneurs. • To provide Scholarships to deserving students for the purpose of higher education. • To encourage and support students of the college in sports, cultural and extracurricular activities.

5.4.2 – No. of enrolled Alumni:

152

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

76500

5.4.4 – Meetings/activities organized by Alumni Association :

APCOER organizes and supports a comprehensive array of initiatives for students, as well as alumni. These programs are developed to enhance student-to-alumni and alumni-to-alumni bondings. "Recall, Relink, and Rejoice" is the motto of every alumnus get together functions. The alumni association regularly organizes get together events that enable APCOER students and alumni to connect with each other, as well as the faculty members, and staff. The events are fueled by experience sharing, futuristic approach, business updates followed by entertainment programs with high tea and refreshments. Alumni also take turns to regale students, faculty, and staff by sharing their memories of APCOER days, work experiences, etc. and promote industry- institute interaction to bridge the gap between industry requirements and academics so that industry ready engineers from the institute can be absorbed in desired industries. They not only guide the students but also help them to get higher education in and outside India. Institute keeps the updated database of alumni to keep them informed about campus activities and institute's progress through Email alerts and social media accounts. In the Alumni Association association meeting it is decided to start the Seminars / Webinars under APCOER-Alma connect "SPOT LIGHT series". In this program association will invite various alumni in and outside India who will share their success story and experiences to guide and encourage the students in their career as well as education.

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)

ISTE the Indian Society for Technical Education (ISTE) is the leading National Professional non-Profit making Society for the Technical Education System in our country with the motto of career Development of Teacher and Personality Development of Students and overall development of our Technical Education System. Under ISTE SPARKTECH is organized in Institute. To organize this event, approval is taken by from management through Principal. Faculty representative and coordinators are decided by all heads of department and principal. To organize this event different students committees are also formed. Following post will be decided by all heads of department. Chairperson, Vice chairperson, Secretary, joint secretary treasurer are selected through interviews. Remaining posts such as editor, Technical event coordinator, and social activity heads

etc. decided by faculty coordinator and final students committees are approved by principal. The various technical events organized were Roborace by mechanical department students, crypt your mind by computer department, Box cricket by civil department, PUBG by IT department, paper presentation by electronics and Telecommunication Department. So through participative management of all the stakeholders, event is successfully organized and conducted. NSS National Service Scheme is a voluntary association of young students in colleges which provides services to society without bias. NSS volunteer works for providing help in natural and manmade disasters by supplying food, clothing and first aid to the disaster victims, arranges blood donation camps to fulfill shortage of blood requirement in hospitals, street plays and awareness campaign for save a girl child and educate her, tree plantation to protect environment and save mother earth, cleanliness moments for hygiene and healthy life, road safety awareness campaign to reduce road accidents. During NSS special camps, a volunteer learn from people in villages how to lead a good life despite a scarcity of resources, develops a sense of social responsibility gets the practical lessons of value education. In our college NSS unit comprises NSS coordinator and staff committee which is decided by principal and all heads of department. NSS coordinator along with staff committee forms student volunteers. All students volunteers are divided in different groups to carried out different activities by NSS coordinator for particular NSS event. Group leader is also decided by NSS coordinator. The different events organized by NSS includes following events/major activities which starts with permission of principal and management for particular events. Sanctioning estimated budget from Principal and management, few events are sponsored by university also, then planning of event, adoption of villages, contacting villages/Area leaders, survey of the village/area, Identification of problems, actual field work and solution to problems and finally evaluation of project. Project is evaluated after its completion by involving members of the community, government officials and panchayats officials. The NSS unit learns from lapses in the execution of the project and plan for the next project keeping in view the bottlenecks and constraints faced by them during the earlier project. So through participative management of all the stakeholders' event is successfully 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
Industry Interaction / Collaboration	• All department carry out industrial visit as per curriculum • T.E. and B.E. students undergoes internship. • Institute has sign MOU's with Reputed Industries to build strong connect for placement • Institute has innovation club for guiding students about recent technologies. • Institute is providing guidance for career opportunity to students through Industry and professional interaction. • Institute has signed MoU with science and Technology park to develop Atal incubation Centre for promoting research and testing center for electrical vehicle components. •

	Institute has developed IoT lab to promote students and faculty research in the upcoming technology. • Institute provides consultancy to various government and non government organizations.
Human Resource Management	• Recruitment process is carried out as per rule and regulations laid down by regulating authorities. • Faculty/Staff gets acquainted to Code of conduct and policies at the time of joining institute. • Roles and responsibilities of every entity are well defined in ISO process manuals to make effective utilization of resources to achieve the vision and mission of institute. • Welfare measures for faculties and staff to ensure healthy work environment. • Relieving process is defined in ISO process manuals to ensure proper handover of roles and responsibilities.
Library, ICT and Physical Infrastructure / Instrumentation	• As per syllabus revision and faculty recommendation , library is enriched with new 63 text books, 35 reference books, 227 subject reference books, 8010 journals (Jgate), 43 printed journals and magazines Digital Library has been set up to refer E-journals and NPTEL video • Subscription of DELNET and JGATE has been started along with startup and Innovation report. • Classrooms are equipped with LCD projectors and internet facility Internet facility with 48 MBPS (1:1) . • IOT Lab with continuo platform has been developed internet and wifi facility is available in entire building.
Teaching and Learning	• Effective teaching methods are adopted to create interest in the students. • Remedial classes are offered for slow learners. • Assignments are given on theory and practical. • Mentoring and counseling of slow learners are part of teaching and learning process. • Unitwise question banks and model answer sheet of university old question papers prepared by respective faculty are discussed. • Students chapters help the students to get industry exposure. • Faculties are encouraged to attend FDP's ,workshops and industrial training to upgrade their knowledge which helps in teaching learning process. • Subject expert are invited

	to conduct sessions for the students and faculties.
Research and Development	• Active Research and Development cell promotes research culture among faculties and students. • Faculties and students are constantly encouraged to present and publish research papers in international and national Journals /conferences. • RD cell promote faculties to pursue higher education • The institute provides a platform for faculty to take up research endeavors through its MOUs with prominent research organizations. • Training programs conducted for the staff for knowledge upgradation. • Research resources are available through DELNET facility. • Students have participated in SPPU Avishkar Project Competition. • Faculties have applied and received research grants.
Examination and Evaluation	• In semester, end semester and practical/oral examinations are conducting as per timetable and evaluating as per the norms of SPPU. • Unit test, prelim examinations are conducted as per academic calendar to track the progress of the students and remedial actions are taken for slow learners after analyzing the results. • Term work marks are granted based on continuous Internal Evaluation.
Curriculum Development	• SPPU plan and develop curriculum according to norms of guidelines of AICTE and respective Boards of studies. • Approved curriculum is available to all stakeholders on SPPU website. • After collecting and assessing the feedback from stakeholders on curriculum aspects, the appropriate suggestions will bring to the notice of respective Board of studies of Savitribai Phule Pune University (SPPU) for possible changes in the course structure for the next curriculum revision. • Contents and activities beyond syllabus help students to gain broader knowledge in respective subject.
Admission of Students	• Institute follows DTE and Admission Regulatory Authority norms for admission process. • Institute admits candidates through centralized admission Procedure (CAP) executed by ARA. • Candidate reports to institute with admission allotment letter. •

| | Candidates fills online institute admission form using institute MIS system. • After submission of form and fees payment students enrollment ID is generated and candidates original documents will be retained in the administrative office till the document verification by DTE/ARA. • Student admission will be confirmed on DTE/ARA website and confirmation letter will be issued to student with Head of the Institute signature. • Using MIS System library department generates student ID card. • List of enrolled students is communicated to respective department. |

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

E-governace area	Details
Finance and Accounts	• For finance and accounts, institute use tally software which includes business management solution and taxation support. • In Institute tally is used for the following operations- 1. Recording of income and expenses by the Institute. 2. Day wise entries of financial transactions made in the institute. 3. Salary payment Details of all staff. 4. PF details of staff. 5. Income tax payment Entries of all staff. 6. Tuition fess detailed entry of each students. 7. Exam Fees entry of each student. • For salary calculations, calculations of budget institute uses some other e-governance means like MS Excel.
Student Admission and Support	• For student Admission and support, we use Vriddhi (MIS system) 1. Every new student admitted to institute need to fill online Vriddhi admission form which will generate student ID. Then, these details can be used for further actions and these details can change very easily whenever required using using authenticated login. 2. Student module is capable of handling student background data, students SPPU result. When a student request for T.C./L.C. certificate, the student information system will gather all the required information and respective certificate is generated automatically and issued.
Administration	• For administration, institute use Vriddhi (MIS system) which integrates all data and processes of institute into a unified system. 1. Student module is capable of handling student background data, student results and

	many other students' related data required in the institute. 2. Employee Module: In this Module, a unique ID is provided to each employee. 3. Library module: By using data from Vriddhi, library department can generate the ID card for students as well as faculty members. This module is used for storing all library resources data and daily issue-return transaction of books and other library resources using barcode scanning method.
Examination	• The necessary infrastructure and resources are available in the institute for organizing and conduction of Savitribai Phule Pune University. • To conduct SPPU examination, dedicated examination server is available at the institute. • Following activities related to SPPU examination are done using webportal link provided by university: Student profile creation and management, examination form filling, OR/PR Internal /External examiner allocation, to download summery of students hall ticket, revaluation form filling, stationary requirement, to access Examination ordinance for students. • For example: For examination form filling, students use the links provided on following URL https://exam.unipune.ac.in/pages/examformsonline.html For summary and hall ticket download, institute uses following link provided by SPPU https://hallticket.unipune.ac.in

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
2019	Nill	Nill	Nill	Nill
No file uploaded.				

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)

2020	2 Days Workshop on Finite Element Analysis Using FEA Tool	Nill	16/05/2020	17/05/2020	325	Nill
2020	1 Day Workshop on CNC Programming	Nill	17/05/2020	17/05/2020	227	Nill
2020	1 Day workshop on "Solar Photovoltic Systems: Opportunities for Freshers Solar Thermal Technologies Its Applications	Nill	18/05/2020	18/05/2020	260	Nill
2020	1 Day Workshop on Introduction, Best Practices in CFD Opportunities in CAD, CAE CFD	Nill	19/05/2020	19/05/2020	214	Nill
2020	1 Day Workshop on Electric Vehicle- Career Business Opportunity	Nill	26/05/2020	26/05/2020	343	Nill
2020	1 Day Webinar on Indian International Automotive Regulations Overview	Nill	30/05/2020	30/05/2020	392	Nill
2020	One week FDP on Scilabin association with IIT Bombay.	Nill	26/05/2020	30/05/2020	247	Nill

2019	2 Days Workshop on Blockchain Technology	Nill	18/12/2019	19/12/2019	30	Nill
2019	1 Week Seminar on Emerging trends in Electrical Vehicle te chnology: Opportunit ies and challanges	Nill	11/02/2020	15/02/2020	120	Nill
2019	"Recomme ndations for Examin ation Reforms"- Guidelines by All India Council for Technical Education (AICTE)"	Nill	03/07/2019	04/07/2019	30	Nill

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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
Quality Improvement Programme (QIP) Short Term Course Sustainable Engineering Address Food/Energy/ Water Nexus	1	09/12/2019	13/12/2019	5
Workshop For Practitioners On Wastewater Treatment And Recycling	1	26/11/2019	27/11/2019	2
One day Workshop On R	1	09/11/2019	09/11/2019	1
Applications of Remote	1	15/07/2019	19/07/2019	5

Sensing and GIS for Hydrology and Water Management				
One Week STTP On Chemistry and Engineering Aspects of Water Remediation (Sponsored by TEQIP/III)	1	01/07/2019	05/07/2019	5
One Week STTP on Advanced Research Methodology	1	11/05/2020	15/05/2020	5
Workshop on Evaluating Students Performance (ICT26)	1	25/05/2020	29/05/2020	5
Workshop on Application of Intelligent Transportation System in Road Safety	1	30/05/2020	30/05/2020	1
Two Week FDP on Prayog / Experiments on Click	1	18/05/2020	27/05/2020	10
FDP on Advances in Civil Engineering	1	26/05/2020	30/05/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	30	Nill	22

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Maternity, PF	PF	EBC, EARN AND LEARN, GROUP INSURANCE

6.4 – Financial Management and Resource Mobilization

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

Anantrao Pawar College of Engineering Research, Parvati, Pune appointed internal and external auditors. Generally the External audit is held in August and September in every year. The institute has a mechanism for internal and

external audit as follows. Mechanism for Internal Audit: • The board of trustees of Anantrao Pawar College of Engineering Research, Parvati, Pune, appoints internal auditors for conducting internal audits of its institutes. • The team of one institute conducts audit for the other institute. The audit report is submitted to Principal and management. • The Principal and accountant take care of doing compliance of the objections raised if any. • Internal Auditor: Ms. Sudipa Jagtap, Treasure Park, Near Walvekar Lawns, Pune Year of Audit : 2019-20 Mechanism for External Audit: The statutory audit is conducted by registered Chartered Accountant firm. External Auditor: Mr. K. B. Salunke B-301, Bharat Bhavan,1361,Shukrawar Peth, Behind Sarswati Mandir, Pune-411002 Year of Audit : 2019-20

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
Savitribai Phule Pune University	179000	Student Development Activities
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6.4.3 – Total corpus fund generated

0

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	TUV-SUD (ISO)	Yes	IQAC
Administrative	Yes	TUV-SUD (ISO)	Yes	IQAC

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

1. Parent-Teacher Meet: Institute organizes and conducts parent-teacher meet at departmental level once in a semester. The points like performance of student, attendance of student, previous and current year result of student are discussed with parents in this meeting. In addition to this, counseling of students is also done for problems other than academics. 2. Industrial Visits: Institute arranges industrial visits for students in coordination with the parents who are working in the industrial field of the respective subject of engineering. The permission for some of the visits is taken from the parents. 3. Anti-Ragging Committee: Anti-ragging committee is formed at the institute and the members in this committee involved are faculty, students and parents as well. Parent-teacher association is formally not constituted in the institute but above said activities is regularly done by parent-teacher coordination.

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

No Data Entered/Not Applicable !!!

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

• Post Accreditation initiatives (mention at least three) • Jitsindia: The initiative to develop separate application for conducting online lectures, meetings, and events of the institute is started. This initiative is taken as an alternative solution towards the other applications like ZOOM, Google Meet etc., which demands premium subscriptions for increased number of participants, uninterrupted sessions. • Initiative for developing IoT enable Polyhouse and

IoT Laboratory with Contineo NX platform is taken • Initiated the activity of organizing and conduction of IIT Bombay Spoken tutorial workshop for students as well as faculties. • To create linkages and MoUs with organizations.

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
2019	"Recommendations for Examination Reforms"- Guidelines by All India Council for Technical Education (AICTE)"	03/07/2019	03/07/2019	04/07/2019	30
2019	Introduction to Virtual Laboratory	11/09/2019	11/09/2019	11/09/2019	30
2020	Arduino, a Course in the IoT Series	08/02/2020	08/02/2020	08/02/2020	27
2020	Opportunities in Canada for Higher Education and Immigration"	12/01/2020	12/01/2020	12/01/2020	161
2020	Smart Use of Virtual Laboratory for Faculties and Students	28/04/2020	28/04/2020	28/04/2020	355
2020	SpecTronics quiz 2020	29/05/2020	29/05/2020	29/05/2020	194
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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
One day seminar on Women Empowerment	23/01/2020	23/01/2020	97	28

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
23.91

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	Nill

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
2019	1	1	27/06/2019	1	Nirmal Wari Cleanliness Activity at Bhawani Peth	Awareness on cleanliness	30
2019	1	1	28/06/2019	1	Nirmal Wari Cleanliness Activity at Saswad	Awareness on cleanliness	26
2019	1	1	06/07/2019	1	Nirmal Wari Cleanliness Activity at Bhawani Peth	Awareness on cleanliness	35
2019	Nill	1	02/09/2019	9	Swachhata Campaigning during	Awareness on cleanliness	30

2019	Nill	1	10/09/2019	10	Kolhapur-Sangli Flood Victim Donation Drive	Help to food victims	40
2019	Nill	1	21/09/2019	1	Food victim donation distribution at Koyali, District-Kolhapure	Help to food victims	30
2020	1	1	06/01/2020	7	NSS Special Camp at Aambed (Velhe)	Social service and team building activities	50

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

Title	Date of publication	Follow up(max 100 words)
Code of Conduct	15/06/2019	code of conduct defines how an organizations employees should act on a day-to-day basis. It reflects the organizations daily operations, core values and overall institute culture. Code of Conduct for each every element of our organization starting from Students, Parents, Teaching Staff, Principal, Supporting Staff viz, administrative Staff, Accountant, Student Section, Lab assistant, Lab Incharge, Clerk, Peon. The handbook also includes Professional Ethics for personal and corporate that govern behavior within the context of a Teaching Profession institutional core values.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day	21/06/2019	21/06/2019	100
Participated in Guinness World record of SPPU of largest Distribution of Saplings (Neem) at a time (16731)	24/06/2019	24/06/2019	48
Anti Tobacco pleadge	11/07/2019	11/07/2019	63
Tree Plantation	18/07/2019	22/07/2019	39
Fit India Pledge	29/08/2019	29/08/2019	45
Swami Vivekanand Speech for NSS induction	16/09/2019	16/09/2019	91
River cleaning Activity	02/10/2019	02/10/2019	24
Unity day Celebration	31/10/2019	31/10/2019	39
Constitution Day	26/11/2019	26/11/2019	12
Blood Donation	12/12/2019	12/12/2019	34

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

Tree Plantation Institute is enriched with a lush green campus of around 68 acres. The institute makes special efforts to engage in environmental awareness among the students via Tree Plantation Programmes. Institute firmly believes in "Green India, Clean India" which leads to environmental awareness and action. The institute has undergone an Green Audit towards survey of landscaping with trees and Plants. The institute has not given permission to install any electromagnetic towers in the premises in order to maintain the radiation less campus. Solar Power plant- Renewable Energy To make efficient use of solar renewable energy Anantrao Pawar College of Engineering and Research has installed a 10kW Solar power plant with 31 solar panels in association with Maharashtra State board of Electricity funded by Savitribai Phule Pune University. The power plant generates on an average 120-150 units per day depending upon the weather condition. The generated power is net metered through the MSEB meter which is connected to the grid. Since then there has been a reduction in MSEB bill amount with the usage of solar renewable energy. Rain Water Harvesting Institute is located at South-Western region of Parvati, Pune, state of Maharashtra in India. The geographical campus area of our college is around 68 Acres which is located at Parvati hills where ample of trees are planted, this prevents soil erosion. As per the topography direction of runoff, we have maintained 5 natural ponds in campus which will help to recharge ground water naturally. Rain water will be stored in the selected ponds as per their capacity, and will simultaneously recharge the ground water table, in turn conserve the rain water. These natural ponds will help to conserve rain water effectively and use it efficiently during summer season. Output from these natural ponds will results in ground water recharge as well as water conservation. Vermicomposting The solid waste generated in the

institute premises by dry tree leaves, raw kitchen waste (from canteen) etc. have been treated to make compost fertilizer. We have prepared 6 dumping pits of 5 feet deep and 3.5 feet wide area where the waste is dumped on daily basis. Each bore is assigned a day name plate where the solid waste is collected and dumped with another layer of soil along with water for the decomposition process and ensuring proper aeration by regularly turning the mixture. After complete decomposition of this material as compost fertilizer is use in our garden. E-waste management Keeping in mind the global hazards of electronic waste, we are sincerely trying and putting our best foot forward to deal with any electronic waste that will be generated in future. We have collaborated with a renowned foundation called "SwaCH", for the proper disposal of e-waste. Students and staff are encouraged to deposit the e-waste generated at a specific location in every department, dedicated for collection of e-waste.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best practice - I Title : Community Service through quality testing of material used in Civil engineering structure and third Party Audits Objective The prime objective behind the practice is to engage in and be relevant to the community by providing technical services. Besides education, we employ economically feasible, technically viable, advanced design and testing solutions in quick turnaround time which will be recognized by its quality. The Context Consultancy as an opportunity for faculty members to share insights with practitioners and contributes to experimentation and new learning by clients. Consulting research brings the faculty in contact with real-life managerial problems, and thus greatly enriches teaching and research. The Practice The college receives letters towards specific services from various agencies like Municipal councils, PWD, Irrigation Department, Forest Department etc. Reports and testing charges are submitted to the respective agency for payment. Evidence of Success The success of the practices can be observed by the regular incoming new service requests, payments and the work completion certificates received from the respective agencies. Problem Encountered and Resources Required. Advanced techniques and tools like UTM, Total Station, Core Cutter, NDT, Triaxial Testing Machine, Impact Testing Machine are incorporated. Skilled labor and technicians which are very essential while carrying out the practice. Calibration of major equipment's charges are high in practice. Currently, agencies prefer the National Accreditation Board for Testing and Calibration Laboratories(NABL). Agencies pay the consultancy charges very late to the institute. Best practice - II Title : Technological Coupling via Innovation Club Objective of the Practices Provoking students to move and think in the direction of upcoming technological trends and innovations thereby giving a variety scope for their projects development during their academic curriculum. The Context To harness the creative potential of youth, final year students form a team of students and faculty members along with a Innovation Club member. A vibrant knowledge network has to be created across various domains across technology. Primarily the club will pursue four functions: [a] search, [b] spread, [c] sense and [d] implement. The Practice The students seek help from innovation club members apart from the guide assigned at the start of the project for a broader scope towards the project development. The faculties too seek help while preparing their research proposals before submitting to the university. Evidence of Success Institute has received a grant of Rs.3,00,00.00 from AICTE ISTE for refresher course in excellence in teaching. A grant of Rs. 1,00,000.00 was sanctioned by Savitribai Phule University of Pune for Workshop on Blockchain Technology. A Grant of Rs. 75,000.00 was given by Science and Engineering Research Board(SERB) for a 5 Days Workshop/Symposia in Electric Vehicle technology Individual faculty have received BCUD research grants of Rs. 3,00,000.00, Rs. 1,25,000.00, Rs. 2,40,000.00 from Savitribai Phule University

of Pune(SPPU). Problem Encountered and Resources Required. The problems faced or the challenges the team comes across is the inefficient funds for the hardware suggested at students level, which teaches them a lot in cost cutting and get stable through available resources.

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

http://abmspcoerpune.org/NAAC_AQAR19-20.aspx

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

The ABMSPs Anantrao Pawar College of Engineering and Research at Parvati, Pune distinguishes itself from peer institutions by offering an affordable, highly personalized, student centered quality education to diverse students. It was established in 2012 comprised of students, faculty, and staff who possess differing attributes based on race, ethnicity, gender, sexual orientation, disability status, age, religion, and other characteristics. Diversity grounds intellectual pursuits provides us with opportunities for discovery and ways to integrate all individuals and groups into the larger community, respecting and valuing their uniqueness while simultaneously advancing the Institutes historical tradition. Anantrao Pawar College of Engineering and Research was named after keeping in mind the research outcomes and the broader mission by its visionaries. The prime objective of the institute is to sow the seeds of research among the graduate and post graduate students along with faculty members to publish their work in reputed Conferences, Symposiums and International Journals. The students who undergo the syllabus of Engineering for four years have to come up with an innovative idea at the end of the curriculum which is expected out of research as their final year project. The post graduate students too have to go through the same process as well. The faculty members who are full time engaged in teaching also urge to come up with their findings, experiments and show their competencies and research potential to encouragement in research domains to other faculties and students as well. The Undergraduate and Post-Graduate Students are assigned a guide towards their project ideas and various domains. The students are asked to publish a survey paper after the completion of their literature survey. In the later section towards their experimentation/ analysis and Conclusion, they are expected to publish a Research Findings paper or Result paper in reputed International Journals. Every student has at-least one research paper on his/her name at the Course in reputed Journal. They have also been encouraged to file patents and as a result a number of patents are published by students. In accordance with students, every faculty member publishes their research findings in various Journals and Conferences throughout the Year. Marching towards Research Grants, Institute has received a grant of Rs. 3,000,00/- from AICTE ISTE for refresher course in excellence in teaching. A grant of Rs. 1,00,000/- was sanctioned by Savitribai Phule University of Pune for 2 Days state level Workshop on Blockchain Technology. A Grant of Rs. 75,000/- was given by Science and Engineering Research Board (SERB) for a 5 Days Workshop/Symposia in Electric Vehicle technology : opportunity in Challenges in Electric mobility. Also individual faculty have received BCUD research grants of Rs. 3,00,000/- Rs. 1,25,000/-. Rs. 2,40,000/- in various research domains under the ASPIRE Research Grant scheme of Savitribai Phule University of Pune. Apart from research, institute has also marched in the direction of freelancing consultancy, where departments are trying to contribute with their technology expertise.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

 Institute is planning : • To submit a proposal for starting new program in emerging technology (Artificial Intelligence and Data Science). • To conduct Alma connect program under Alumni association under which institute will organize and conduct seminars/webinars of alumni. • To build IoT enabled polyhouse and IoT laboratory to promote reserch in the field of smart agriculture system. Institute is planning to develop various modules of the project in upcoming year. • To promote research in the field of blockchain technology. • To submit proposals to various agencies like SERB, SPPU, AICTE, ISTE to get fund for research activities, conduction of workshops and programs. • To create e-content for various subjects in the academics. • To provide consultancy in the field of software development and IoT. • To start startup cell/ Incubation centre under Institute industry iteraction cell. • To adopt NPTEL/ATAL/SWAYAM courses as a curriculum enrichment program for faculties as well as students under IQAC.