



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	P. E. S. COLLEGE OF ENGINEERING, AURANGABAD
Name of the head of the Institution	Dr. Abhijeet P. Wadekar
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02402403001
Mobile no.	9422293400
Registered Email	principal@pescoe.ac.in
Alternate Email	apwadekar@gmail.com
Address	Nagsenvana, University Road, Besides Panchakki
City/Town	Aurangabad
State/UT	Maharashtra
Pincode	431002

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>private</b>
Name of the IQAC co-ordinator/Director	<b>Ms. Vijayashri A. Losarwar</b>
Phone no/Alternate Phone no.	<b>02402403008</b>
Mobile no.	<b>9423153932</b>
Registered Email	<b>iqac_coordinator@pescoe.ac.in</b>
Alternate Email	<b>valosarwar@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://pescoe.ac.in/college_data/2017.pdf">https://pescoe.ac.in/college_data/2017.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://pescoe.ac.in/college_data/BATU-BAMU-ACAD-CALENDER-2018-19.pdf">https://pescoe.ac.in/college_data/BATU-BAMU-ACAD-CALENDER-2018-19.pdf</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>B+</b>	<b>2.56</b>	<b>2017</b>	<b>28-Mar-2017</b>	<b>27-Mar-2022</b>

<b>6. Date of Establishment of IQAC</b>	<b>25-Jan-2017</b>
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<b>7. Internal Quality Assurance System</b>
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Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>Environmental Audit</b>	<b>29-Jun-2019</b>	<b>6</b>

	5	
Regular IQAC Meetings Conducted	14-Jun-2019 1	4
Regular IQAC Meetings Conducted	03-Apr-2019 1	16
Regular IQAC Meetings Conducted	25-Jan-2019 1	3
Regular IQAC Meetings Conducted	22-Jan-2019 1	4
Regular IQAC Meetings Conducted	14-Sep-2018 1	16
Academic Audit in Sem-II	01-Feb-2019 5	98
Academic Audit in Sem-I	17-Aug-2018 2	98
Administrative Audit	28-Jun-2019 1	32
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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
P.E.S. College of Engineering, Aurangabad	TEQIP	Dr Babasaheb Ambedkar Technological University, Lonere	2018 6	49405
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	5
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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

1. Academic Audit was conducted for all the Departments in the college. 2. Administrative Audit was conducted. 3. Environmental Audit was conducted. 4. Alumni Association was formed. 5. Organized One week FDP on RFIDs for IOT and Bigdata Applications.

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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
To follow Academic Calendar.	Executed through conduction of activity in the departmental as per the Academic Calendar of respective department
To find the needs of slow learners and Active Learner's	Remedial classes were conducted to improve their academic performance. Active learners are motivated to prepare for competitive Exam.
A quality check through IQAC Audits is scheduled.	Internal Academic and Administrative audit is performed for quality checking.
To plan for Environmental Awareness	Execution done through Green Audit, Plantation of trees carried out in 201819
Computer training for the non-teaching staff of the college to enhance their operational skill.	Better functioning of the college office.
Research promotion in the Institute	Encourage faculty to pursue research in basic and applied technology. To publish research papers in Journals of International Standards. Patents of two faculties are published during this year.
Faculty Development Programmes	Helped in upgrading knowledge of faculties.
Softskill and CRT programmes for students	Substantial increase in placements.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
P.E.S. Governing Body	15-Nov-2019

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
Date of Visit	16-Mar-2019
<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	09-Jan-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>           Following softwares are being used by the institute: 1) College ERP Software comprises nearly all activities of a College. There are various modules as follows. a) Registration cum Admission b) College Fees c) Exam Fees d) Hostel Fees e) Management of numerous academic batches divisions f) Maintenance of Student academic profile g) Student Scholarships management h) Certificate Generation Prints All the reports can be generated in various formats like .pdf, .xls, .doc. Students Contact information and address for communication is also maintained. Reports for Category wise student admission can also be generated using ERP. Students reports like Bonafide certificate, Expenditure certificate, TC is also generated using Certificate module. ERP application is locally hosted in a college. The server specification is as follows Model: HP ProLiant ML10 Gen9 Server Processor: Intel Xenon E31225v5 (4 core) Memory: 8 Gb Hard Disk: HP 1 TB SATA OS: Microsoft Windows Server 2016 Database: MYSQL Administrator 1.2.17 The software is developed by Intellection Software Technologies Pvt. Ltd. Pune. The server backup is taken daily. Various users of the ERP have been created for access control. 2) Tally Software for accounting purpose 3) Paywihz software for salary purpose 4) LibMan is a Library Automation user friendly system. It is used to ensure the proper management of books in a library. It is         </p>

used to keep track of whole transactions of the books available in the library. It helps librarian to keep records of available books as well as issued books. It also keeps track of books returned and added in the library. It is legally licensed by MasterSoft ERP Solution Pvt.LtdA Company of Master's Software Group for Library Management System LibMan System contain following modules : Acquisition Cataloguing Circulation Serial Controls ( Magazine Journals) MIS Reports ( with Graphical Reports) News paper entry Paper Cutting OPAC On Line Public Access Features of LibMan : Multiuser, Fully secured maintenance free software 250 Reports as per library Barcode, Spine label generation No limitation of book entry No upper limits on number of document(s)/Journal(s)/periodical(s) entry User can print report in A4,Legal 132,80 column reports Reports export facility to MS word, MS Excel, PDF format etc. Statistical with Graphical MIS reports SMS Email send to students staff User defined privileges for different user can be given Data conversion possible from any software to LibMan

## 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

Based on academic calendar of university, we prepare academic calendar of our institute. Accordingly, all academic activities are conducted throughout the year. As per the syllabus structure developed by the university, subjects are allotted to all respective faculties considering their choice and knowledge. Then class wise and staff wise time table is prepared and communicated to students and staff well in advance. For the curriculum delivery, a separate teaching plan is prepared by every staff consisting of approximately 40 lectures. As per timetable every staff member conducts the theory and practical. Alongside, continuous assessment of theory and practical with per-declaration and marking scheme for every subject is followed. Questions based on each topic are also given. The staff maintains a course file which consists of lecture plan, course objectives, mapping of course objectives and programme objectives, notes, assignment questions, quiz questions and previous years' question papers. Before the commencement of the semester a Meeting of all the subject teachers and head of the department is arranged to discuss the curriculum aspects to achieve the course outcome and the program outcome accordingly. Mainly the attention is given on the actual practical of the respective subject. The students of every class are distributed in batches so as to get the maximum practical exposure. The specimen copies of the manuals

are prepared by the staff members as per the list of experiments provided by the University. The consumable and non-consumable items for newly added subjects are ordered before the commencement of every semester which may require for actual practical performance of the students. It is tried to complete the syllabus within the stipulated lectures. At the end of every month syllabus completion review meeting was conducted and if required extra lectures were conducted for all students as well as for weak learner. Its record is maintained by concerned staff in the department. For some of the subjects, industrial visits as well as expert / guest faculty lectures are arranged to understand the subject in better fashion as well as to have exposure to the practical applications. We have Provision of E-learning Resources in the department and central Library. We try to bridge the gap between Institute and Industry by conducting Seminar/ workshop by industry person. We are ready to adopt innovative teaching and learning methods, for better understanding we ask students to prepare any one topic from syllabus and to deliver seminar in the class. We provide more than one Elective, Virtual lectures and labs. Value added courses as Certification of Red Hat & Python, NPTEL courses, Robotics, E-yantra are also conducted.

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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Auto Cad Course	Nil	01/08/2018	15	Employability entrepreneurship	Drafting , 2D Drawing , 3 D drawing
Ready Engineers	Nil	01/08/2018	365	Employability	Design Engineering domain and Computer-aided Design (CAD) tools.
Star Python Certification	Nil	18/08/2018	90	Employability	Python Programming
Red Hat Certification	Nil	18/08/2018	90	Employability	Linux Administration, Product deployment, Big data Hadoop server Administration, Cluster Creation and Administration

### 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Mechanical Engineering	02/07/2018
BTech	Civil Engineering	02/07/2018
BTech	Computer Science &	02/07/2018

Engineering		
BTech	Electrical Engineering	02/07/2018
BTech	Electronic & Telecommunication Engineering	02/07/2018
Mtech	Electrical Power System	01/08/2018
Mtech	Computer Science & Engineering	01/08/2018
Mtech	Civil Structures	01/08/2018
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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
BTech	Mechanical Engineering	02/07/2018
BTech	Civil Engineering	02/07/2018
BTech	Computer Science & Engineering	02/07/2018
BTech	Electrical Engineering	02/07/2018
BTech	Electronic & Telecommunication Engineering	02/07/2018
Mtech	Civil Structures	01/08/2018
Mtech	Computer Science & Engineering	01/08/2018
Mtech	Electrical Power System	01/08/2018

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

	Certificate	Diploma Course
Number of Students	75	0

### 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
E-YANTRA	31/01/2019	49
3-D fusion software training	01/04/2019	28
Seed IT Idol 2019	12/02/2019	103
Spoken Tutorial Workshop on Linux	19/11/2018	56
Spoken Tutorial Workshop on Java	30/11/2018	27
Spoken Tutorial Workshop on C	28/12/2018	58
Spoken Tutorial Workshop on CPP	04/04/2019	66



Spoken Tutorial workshop on Linux	05/04/2019	19
Spoken Tutorial Workshop on Python	24/04/2019	41
Soft skill training	28/09/2018	1000
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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Mechanical Engineering	69
BTech	Civil Engineering	51
BTech	Computer Science & Engineering	160
BTech	Electrical Engineering	135
BTech	Electronics & Telecommunication	12
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### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Institute collects feedback from students and teachers in every semester, from parents every year. Also institute collects feedback from alumni and employers frequently. The student gives feedback for all the theory and practical courses taught to them in the semester. The general assessment points of the feedback are based on adequacy of syllabus, organization of units/sections of the syllabus. Satisfaction about teaching methodology, teacher's approachability towards students, teacher's ability to teach the subject and clear the doubts of students, syllabus coverage, organization of lectures. Students give level of satisfaction as Average, Good, Excellent or Outstanding. If a teacher gets average grade, he/she is being called by head of the department / principal and is being informed about his/her performance of the particular course. The teacher is accordingly instructed by HOD/Principal to improve the performance. Alumni feedback is collected at the time of Alumni meet or whenever any alumni visits college. Generally, once in a year the department-wise alumni meet is arranged. They are asked about the level of curriculum related to employment orientation in curriculum, depth of course content including project work. Sometimes alumni suggest that some new technology is coming up which is not included in the syllabus. So we arrange workshop for students on that technology. The employer feedback highlights evaluation parameters in the form of technical knowledge. Communication skill, relationship with senior, ability to take extra responsibility, team work ability. As per this feedback institute</p>

has started Soft Skill Training for the students. The feedback from the Parents helps the Institute immensely reorienting the administrative, accommodation, general ambience, the skill development, suitability of the courses for career growth of the ward, the skill development of ward etc. The analysis of this feedback helps institute in reframing the course content and various skill development training. It also helps in determining overall employability of our students at various levels.

## 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
BTech	Mechanical Engineering	120	43	37
BTech	Electrical Engineering	120	30	26
BTech	Electronics and Telecommunication Engineering	30	6	1
BTech	Computer Science and Engineering	90	66	49
BTech	Civil Engineering	60	32	28
Mtech	Computer Science and Engineering	18	9	6
Mtech	Electrical Power System	18	18	17
Mtech	Civil Structures	18	18	17

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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 (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1417	69	89	9	9

### 2.3 – Teaching - Learning Process

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

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

98	75	5	13	5	8
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

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

Students mentoring system is available in our institute through Teacher Guardian Scheme. Basic objectives of this system are: 1. To motivate the students for better academic performance. 2. To motivate the students for Professional excellence. 3. To motivate the students for Higher Studies and Research. 4. To motivate the students for extracurricular activity. 5. To solve any types of problems faced by students. Under this teacher guardian scheme, all the teachers of the college have been engaged as mentors of each class, for 13-18 students at one teacher. Guardian teachers maintain all records of students. He/She takes the follow up regarding attendance of students under his/her supervision. Teacher guardian try to improve student's performance by the way of counseling. If required teacher call the parents on phone on the basis of weekly / monthly monitoring. Direct telephone lines in the office are made available. The mentors act as guides to the students during their summer and final projects. The teacher guardian scheme ensures that the students adapt to the dynamic learning environment and lead their ways into highly successful careers. The institute has an integrated mentoring system where the faculty acts as a link between the students and the institution. The HOD (Head of the Department) also act as a mentor and monitor different activities of the assigned mentors and the students. The HODs will –

- Meet all mentors of his/her department at least once a month for the reviewing of proper implementation of the system.
- Suggest and advise mentors whenever necessary.
- Initiate administrative action on a student (when necessary).

Every guardian teacher maintains following document / record of students: Personal details, Class/Practical attendance record, exam result record, Academic / extra-curricular achievement record, Meeting attendance/discussion record.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1417	98	1:15

## 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
98	98	0	0	11

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. V. D. Jadhav	Assistant Professor	Awarded PhD
2018	Dr. R.G. Pungle	Professor	Awarded PhD
2018	Prof. Y. S. Pagar	Assistant Professor	Awarded Copyright in Improvement in Security
2018	Dr. V.K. Kadam	Professor	PhD Guide
2018	Dr. S. N. Kakarwal	Professor	Bharat Vikas Award
2018	Neha Syed	Assistant Professor	Android Basic Nanodegree by Google (Udacity)
2018	Prof. A. S. Gadekar	Assistant Professor	RHCE Certification
2018	Mrs. M. R. Rajput	Assistant Professor	Patent Publication-

			"System for Gender and Age group Identification from IRIS Images"
2019	Dr B N Chaudhari	Professor	B.O.S. Member, Dr BAMU, Dr BATU, Govt. College, Aurangabad.
2019	Dr. A.P. Wadekar	Principal	Dr. Babasaheb Ambedkar Shaikshanik Gaurav Seva Puraskar
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## 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
BTech	213461210	Sem-I FY	30/11/2018	12/04/2019
<a href="#">View File</a>				

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

In the beginning of the semester, planning of academics, technical and non-technical activities is circulated to all teaching staff and students. It is mandatory to all staff to prepare teaching plan, lesson plan and laboratory plan for allotted respective subject as per course outcomes. Internal Academic and Administrative Audit committee is constituted by Principal, Academic Dean and Head of Department. Audits were conducted for quality checks. Institute also implement interactive sessions on the basis of internal audit done.

Continuous internal evaluation: The process of evaluation of performance of every student is carried out by each staff with respect to the concerned subject. Weightage is given to Assignments, Class tests, Seminars, Attendance in Theory and Practicals and also in the regular completion of the assigned works. These activities are designed to stimulate critical thinking, creativity and problem solving capability of the students. Additional activities as per the concerned subject are: quiz, surprise test, open book test, case studies, presentations, group discussion and mini projects. Practical exposure to the students is of utmost importance. Aiming towards this necessity, the institute has designed a specific practical evaluation sheet meeting affiliating university criteria. Each student is assessed by faculty member based on his/her performance in a particular practical by conducting oral examination at the end of the practical. This practical evaluation system is transparent and every student signs the sheet at the end of the practical. As per the norms of affiliating university Internship is mandatory for all students of FY and SY. The institute has devised a well-structured mechanism to monitor and evaluate the Internship of students. Each mentor keeps the track of students undergoing internship by visiting the industry if needed. The institute has designed an internship record wherein all the tasks performed by a student during his/her internship are available. At the end of internship, the student need to present his experience during the internship using a presentation, on the basis of which the performance of student is evaluated by mentor. Each course teacher designs the question paper for mid semester/ Class test to satisfy the levels

specified by blooms taxonomy. Distribution is made priority-wise of the total internal marks and according to the overall performance the internal marks are given to the students. As per the academic calendar, the process of continuous internal evaluation is carried out. The marks for this assessment are given in CA-I and CA-II, as per the marking scheme. The analytical rubrics of mid-semester/ class test results are prepared and are used to identify the learning levels of the students. This in turn is used to increase student interest and participation in teaching learning process.

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

As our institute is affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad since 1994, and now affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere since 2017-18. So in 2018-19 we are following Academic calendar of both the universities for conduction of curriculum activities and exams of respective classes. Based on the Academic calendar of university, institute prepares Academic calendar of the institute. Taking it as a base guideline the department prepares its departmental calendar. All the departmental activities are arranged and conducted as per the dates mentioned in the calendar. The academic calendar is declared to the students through college website as well as departmental Notice board. The academic calendar includes commencement of classes, induction program, mid semester exam, periodic class tests, seminar / project reviews, public holidays, annual social gathering, term end, tentative dates of practical and theory examinations. Also it contains departmental activities as expert/guest faculty lectures, industrial visits, workshops, STTPs and so on.

## 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)

[https://pescoe.ac.in/college\\_data/ETC\\_CO\\_PO.pdf](https://pescoe.ac.in/college_data/ETC_CO_PO.pdf)

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
213419110	BE	Civil Engineering	66	37	50.06
213424210	BE	Computer Science & Engineering	61	41	67.21
213437210	BE	Electronics & Telecommunications	17	14	82.00
213429310	BE	Electrical Electronics & Power	112	87	77.65
213461210	BE	Mechanical Engineering	104	74	71.15

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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)

[https://pescoe.ac.in/college\\_data/student\\_satisfaction\\_survey.pdf](https://pescoe.ac.in/college_data/student_satisfaction_survey.pdf)

### 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
Students Research Projects (Other than compulsory by the University)	365	P.E.S. College of Engineering, Aurangabad	0.5	0.5
Students Research Projects (Other than compulsory by the University)	365	P.E.S. College of Engineering, Aurangabad	0.5	0.5
Projects sponsored by the University	365	P.E.S. College of Engineering, Aurangabad.	0.25	0.21
Industry sponsored Projects	365	Gayatri Auto Component K-30 MIDC Waluj, Aurangabad	0.3	0.3

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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
INDO-EURO ENTREPRENEURSHIP CONCLAVE	For all departments	28/09/2018
Auto Desk 360 fusion -PDE seminar workshop	Mechanical Engineering	01/04/2019
Seminar on Awareness on Intellectual Property Rights	Computer Science Engineering	11/02/2019
Symposium on Current Trends in Natural Language Processing its Business Applications	Computer Science Engineering	09/07/2019
Expert talk on Research Directions	Department of Computer Science and Engineering.	02/02/2019
Guest lecture on Testing Maintenance of Home Alliances	Electrical Engineering	03/09/2019

Expert talk on Boiler efficiency in TPS	Mechanical Engineering	13/10/2019
Guest lecture on RAC/HAVC	Civil Engineering	11/09/2019

### 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
Feature Fusion of Palmprint and ear using canonical correlation analysis method	Dr. S.N. Kakarwal	ICETSET 2018	29/09/2018	Best Paper Award
System for Age and Gender identification from iris	Minakshi Ravindra Rajput	Government of India	24/08/2018	Patent for Research
Biometric Key Generation for Elliptic Curve Cryptography	Yogita Subhashrao Pagar	Institute of Scholars	28/10/2018	Research Excellence
Improvement in Security via Biometric Key Generation for Elliptic Curve Cryptography	Yogita Subhashrao Pagar	Copyright office, government of India	02/07/2018	Copyright - Literary / Dramatic work
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nagarjuna	Aubin Joe	GIENET	Smart Parking	Mechanical Parking	10/09/2018
Nagarjuna	Mangesh Wankhede	GIENET	WAPARKING	App Based Parking Spot Finder	15/11/2018
Nagarjuna	Mayur Vyawahare	GIENET	IoTians Global	Energy Conservation (IoT based)	07/01/2019
Nagarjuna	Sahil Gopal Naghate	ODSS INFOTECH PVT LTD	Online Examination Center	Conduction of Online Government Examinations	11/06/2019
<a href="#">View File</a>					

## 3.3 – Research Publications and Awards

### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
1	1	2

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

Name of the Department	Number of PhD's Awarded
Computer Science Engineering	1
Mechanical Engineering	1

### 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	Computer Science Engineering	5	6.13
International	Mechanical Engineering	1	0.33
International	Electronics Telecommunication	1	5.87
International	Electrical Engineering	7	5.77
International	Applied Science	1	5.76
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### 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
Electrical Engineering	12
Electronics and Telecommunication	5
Mechanical Engineering	3
Computer Science Engineering	11
Civil Engineering	5
No file uploaded.	

### 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
No Data Entered/Not Applicable !!!						
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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
No Data Entered/Not Applicable !!!						
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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/Semina	24	25	2	18



rs/Workshops				
Presented papers	28	0	0	0
Resource persons	0	0	0	6
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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
Electrical Safety Audit of Bank of Maharashtra	Vedant Energy Solutions Ltd.	1	4
Ready Engineer CSR scheme For Medicine distribution to cancer patient	Tata Technologies PES College of Engineering	5	25
Self Defense Activity	MISSION SAHASI Project by ABVP and Vidyarthi nidhi	15	70
Nation wide Cometition on Laws related to women	National Commission for women	11	98
Visit to Matoshri Vruddhram	District Probation after care association Aurangabad	10	49
Visit to Orphanage	Jijamata Balakashram Aurangabad	5	45
Clean City Awareness Rally	Tata Technologies	150	436
Conservation of Petrol, Diesel Energy Management	National Government Agency- Petroleum Conservation Research Association (PCRA)	5	400

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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
Social Activity	Excellence Award	Dhammayana Educational Charitable Trust	0
Educational	Shaikshanik Gaurav Seva Puraskar	Dr. babasahen Ambedkar Marathwada	0

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation	P.E.S. College of Engineering	Blood Donation	2	20
Swachh Bharat Abhiyan	P.E.S. College of Engineering	Swachh Bharat Abhiyan	90	100
Social awareness activity	P.E.S. College of Engineering	Visit to the District Probation Student welfare association	4	20
Ready Engineer CSR Scheme	Tata technology PESCOE, Students Staff	Medicine distribution to cancer patients	5	25
Tree Plantation	DTE	Tree Plantation	95	50
MISSION SAHASI	Savitribai Phule Mahila Ekatma Samaj Mandal Krida Bharti Student for Seva	Self Defense Activity	2	70
Cancer Awareness and Prevention	Govt. Cancer Hospital, Aurangabad	Expert talk on Cancer Awareness and Prevention	2	94
Laws related to Women	National Commission for women	Nationwide competition on Laws related to Women	8	100

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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
FDP on RFIDs for IOT and Big Data Applications	32	Dr. Babasaheb Ambedkar Technological University, Lonere	6
Technical Symposium on Current Trends in Natural Language Processing and its Business Applications	42	P.E.S. College of Engineering Aurangabad	2

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
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**No Data Entered/Not Applicable !!!**

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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
Practical Vision Consultants	09/08/2019	Develop Soft skill, Professional Skills, introduction to industrial environment, Research Development activities for staff and students	29
Scout Edutech, Pune	28/09/2018	Soft skill training	1000
Pratishtan Forging Cluster Foundation	13/03/2019	To provide necessary technical support for designing new products and other technical developments	35
M/s GAURAV ENGINEERING	27/09/2018	Industry visit, Expert Lectures	55

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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
11844000	783625

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	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
Lib-Man	Fully	V11	2005

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	30409	8570869	1021	503350	31430	9074219
Reference Books	3103	1817120	81	40853	3184	1857973
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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
Dr. V. D. Jadhav	Binary Search	LMS-ERhub	01/08/2018
<a href="#">View File</a>			

#### 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	410	15	120	13	1	1	6	100	0
Added	0	0	0	0	0	0	0	0	0
Total	410	15	120	13	1	1	6	100	0

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

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

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E-Studio	<a href="https://pescoe.ac.in/campus/lms.php">https://pescoe.ac.in/campus/lms.php</a>

#### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
690000	398000	13895000	9357000

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

The college has maintenance committee that oversees the maintenance of buildings, classrooms and laboratories. The maintenance officer conducts periodic checks to ensure the efficiency / working condition of the infrastructure. Adequate in-house staff is employed to maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. The Green Cover of the campus is well maintained by a full time gardener. Considering the huge infrastructure of our institute it was found necessary to deploy an external agency for the work of Housekeeping. Electrical maintenance is done in house. Maintenance engineer for civil works is appointed. The campus maintenance is monitored through surveillance Cameras.

**Laboratory:** Institute has well equipped laboratories to meet the requirement of the syllabus of the affiliating university. Lab assistance looks after the maintenance of equipment. Lab in charges looks after the smooth functioning of the equipment. If the equipment is nonfunctional or not working properly, same is intimated to the concerned HOD. The HOD then in consultation with the Lab in charge and Lab assistant looks into the maintenance of the equipment at institute level. If the equipment is non-repairable at institute level, then with permission of the Principal, external vendors or suppliers are called for maintenance of the equipment. Each lab in charge maintains dead stock of the equipment. Dead stock verification is done in every semester. The cleanliness in the laboratories is maintained with the help of support staff.

**Library:** Librarian and library support staff look after the library facilities. After getting the requirements of books from every department, books are ordered as per the standard guidelines. Library staff ensure that all records must be maintained properly. Access timings of the Library is 10.30am to 5.30pm and during Exam it is 8.30am to 12 Mid Night. Library provides quality ambience for work and study. Book bank facility is given to all the students. Internet facility is given for staff/student. Reading room facility is available. It stores previous year questions papers as a reference for students and teachers and also it stores previous year questions papers as a reference for students.

**Sports:** Indoor and Outdoor sport facilities are available in Institute. The Students utilize sport facilities regularly and during annual social gathering. The sports in charge looks after the sports activities of the students. Regular maintenance of the Volley Ball court, Gymkhana and Basketball court in college premises is done by the sports in charge in consultation with the respective coaches.

**Computers:** For maintaining the computer infrastructure the institute has appointed System Administrator and support staff. They look after the day to day problems of computers and networks and external vendors are called for major problems. The computer infrastructure is upgraded time to time after receiving the requirement from respective departments.

**Class Rooms:** Institute

has sufficient number of class rooms, Seminar Halls and Drawing Halls. These are maintained regularly through concerned support staff.

[https://pescoe.ac.in/college\\_data/procedures\\_and\\_policies.pdf](https://pescoe.ac.in/college_data/procedures_and_policies.pdf)

## 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	FEES CONCESSION (50 percent)	2	80701
Financial Support from Other Sources			
a) National	SCHOLARSHIP	1378	55925138
b) International	-	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Teacher Guardian scheme	17/08/2018	1417	P.E.S. College of Engineering
NPTEL -Online Certification Course -Cryptography Network Security	28/01/2019	44	P.E.S. College of Engineering
Meditation session	08/08/2018	52	P.E.S. College of Engineering
Personal counselling and mentoring ARC	19/07/2018	90	P.E.S. College of Engineering
Remidial coaching	30/03/2019	221	P.E.S. College of Engineering
Soft skill development	29/09/2018	100	Scout Edutech 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 passed in the comp. exam	Number of students placed
2018	Campus Recruitment Training by Scout	0	250	0	101

	Edutech Pune				
2018	Carrier Counseling on Opportunities after graduation	0	62	0	0
2019	Carrier Counseling on Opportunities in IAF	0	96	0	0
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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
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
<b>No Data Entered/Not Applicable !!!</b>					
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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	Department graduated from	Name of institution joined	Name of programme admitted to
2019	5	BE Civil Engineering	Civil Engineering	P.E.S. College of Engineering.	MTech Structural Engineering
2019	6	BE Electrical Electronics Power	Electrical Electronics Power	P.E.S. College of Engineering.	MTech Electrical Power System
2019	1	BE Computer Science & Engineering	Computer Science & Engineering	P.E.S. College of Engineering.	M.Tech Computer Science & Engineering
2019	1	BE Computer Science & Engineering	Computer Science & Engineering	Nottihnghum Trent University U.K	M.Sc
2019	1	BE Computer Science & Engineering	Computer Science & Engineering	UNSW-Sydney, Australia	MS
2019	1	BE Computer	Computer	DIEMS,	M.Tech

		Science & Engineering	Science & Engineering	Aurangabad	Computer Science & Engineering
2019	2	BE Mechanical Engineering	Mechanical Engineering	DIEMS, Aurangabad	M.Tech Mechanical Engineering
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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
GATE	3
<a href="#">View File</a>	

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		
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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
2018	Runner Up in University Level Dr BATU (Badminton)	National	1	0	2021342017 1161211000 1	Syed Abrar Syed Akbar
2018	Runner Up in University Level Dr BATU (Badminton)	National	1	0	2021342017 1129810049	Rohit Sanjay Vyawahare
2018	National Level University Competition Basketball	National	1	0	2021343017 1129810029	Prasad Madhav Giri
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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)

As per state government resolution we have not formed the student council for this academic year. However, the department level student associations are formed and various departmental technical and cultural activities are conducted during this academic year, by these associations in coordination with staff in charges. The various associations are as follows: FORCES- FORum of Computer



Engineering Students MESA- Mechanical Engineering Student Association EESA- Electrical Engineering Student Association CESA- Civil Engineering Student Association

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni association of P.E.S. College of Engineering is a registered organization. The association is progressing its work for the development of the college. The president of the alumni association is Mr. Pritam Gugle, Secretary is Dr. Varsha D. Jadhav, Treasure is Mr. Prashant Pandit with committee members Mr. Mangesh Niturkar, Mr. Mangesh Kachole, Mr. Sachin Borse, Ms. Priti Ghuge, Mr. Dilip Rathod, Mr. Amit Paikrao. In collaboration with the institute, the Alumni Association of the P.E.S. College of Engineering works to connect alumni, support students. The mission of the Association is to foster strong bonds between alumni, students and the Institution, to keep alumni informed, and create a network enabling them to remain engaged with their alma mater and help shape its future through the Associations programmes and services.

5.4.2 – No. of enrolled Alumni:

38

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

39500

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meetings: 1. Alumni Association Committee Members meeting (Dated: 16/11/2018), Agenda: To do arrangements of alumni meet which is organized on 17/11/18. 2. Alumni Meet was organized on 17/11/2018. Total 65 alumni were present for this meet. 3. Alumni Association Committee Members meeting (Dated: 09/03/2019, Agenda: To increase the members of the association. 4. Student - Alumni interaction (Date: 03/08/2018)

## 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)

Our Institute has the practice of decentralization and participative Management. For good work culture and ethical conduct of Administration, the system of combined wisdom is worthwhile. Following two practices of participative management are being followed in the institute for good outcomes: 1. Appointments of Head of the departments and Deans for timely preparations, implementations and actions on various issues, each department is headed by the senior and qualified staff member. The Head of the department looks after all the academic affairs of the department like Academic Calendar, work load distribution, Time table monitoring of classes etc. Additionally, all the purchases of lab equipment's and timely maintenance is handled by the HOD. Identification of curricular gaps and implementation of activities to Bridge them is also done by the heads of the departments. This is made through industry visits, Guest lectures, seminars, workshops FDPs, Mini projects etc. Interaction with the stakeholders like parents, alumni, employers is also carried out at the departments. Taking feedbacks from the stakeholders and applying necessary corrective improvements is also done. Various committees at department level are formed by the HOD. This decentralization practice enables

participation of all staff members acting as coordinators for different activities. This enables HOD for smooth functioning of the department. 2. At the institute level there are various committees which are used to carry out different student centric activities and are headed by the Deans. Activities of Research, Product development, Industry Institute Interaction, Entrepreneurship development, Alumni interaction, Student Welfare, Academics (First year, UG and PG), IRC are headed by respective deans. Additionally, we have IQAC coordinator and NSS coordinator. In each Institute level committees, one representative of each department is involved is so as to streamline it properly. Timely review of all such activities at department level and Institute level is conducted in the form of audit process. All the activities at Institute level and department level run hand in hand thereby getting better results. Enthusiasm in participation in activities by all the staff member is found enhanced.

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
Research and Development	The institute gives the sponsorship to research oriented projects of the students. Allows them to attend and participate in state, national and international level competitions, symposiums, conferences etc. Students are motivated to publish their findings in various conferences/journals. The institute Motivates faculty members for research publications in peer reviewed journals with high impact factor. Encourages them to present papers in International/National/State Level Seminars, workshops and to act as resource persons. Publication and presentation of technical papers at conferences are encouraged by providing deputation and support towards travel and registration. Faculties are allowed to attend STTPs, FDPs, by granting their sabbatical leaves. Laboratory Infrastructure is continuously updated to meet not only the academic requirements but also research needs. Institute has one research center in Civil department and applied for research center in Computer Department.
Examination and Evaluation	1) As per Dr. Babasaheb Ambedkar Technological University, Lonere, Rules Mid term test and End Semester exams are conducted. 2) Tests are conducted as per the academic calendar. The question papers are framed as per the weightage and the application of the subject. 3) Prelim exams are conducted for giving a pre-exam practice to the

students. This has resulted into improvement in results of higher classes. 4) Online subject tests and aptitude test are conducted. 5) Continuous assessment is carried out by conducting assessment activities. The result are declared periodically and steps taken for improvement 6) The end-semester university exams are conducted by the university.

Curriculum Development

The institute is an affiliated institute, not an autonomous and therefore contributes to the curriculum development through following ways 1. Faculties of our institute are appointed as syllabus setter for some subjects. 2. Some faculties are on Board of studies of affiliated university and they put forward their suggestions time to time in BOS meetings. 3. Faculty members participate in workshops conducted by university for curriculum design and revision of syllabus. 4. Suggestions are taken from all the stake holders and appropriate suggestions are communicated to the BOS chairman for necessary amendments in the syllabus. 5. Various works shops are conducted to bridge the gap between industry Syllabus. a) Training on Red Hat Certification b) Spoken Tutorial workshops on latest technologies. c) Value Added Courses for Students as Auto Cad, Robotics Training through e-yantra

Teaching and Learning

At the beginning of the semester, subjects are allotted to the faculties. Then faculties prepare course plan and lesson plan. The teaching learning process is implemented using traditional chalk and board method along with supporting methods such as PPT, and NPTEL videos etc. Faculty conducts various activities for better understanding of the subject: as Expert talk, Quiz, field visit, and workshops. Based on the learning levels of the student's remedial classes are conducted. The library acts as rich source of material in the form of text books, reference books, e books and various online contents, for the enrichment of the teaching learning. An Effective feedback mechanism helps HOD to review and keep the track of teaching learning. Regular feedbacks

are collected from students and the same are communicated to the concerned faculties. Faculty also collects unit wise feedback from students so as to revise the difficult unit for the students. Faculty shares notes and PPTs with students using ICT tools.

Library, ICT and Physical Infrastructure / Instrumentation

College library is fully computerized. It is a place where students can search for new avenues of information. The library of the institute is stacked with ample amount of text and reference books. The library is also enriched with different types of supporting material such as e books, CD/DVD, Journals, Magazines, e journals and online access to various resources. The institute tries to provide these resources to students with the help of following initiatives 1. Each student can get books on library card and by using book bank facility. The institute has subscribed to both hard as well as e journals. Provision for Wi-Fi facility in the campus for use of the e-learning resources. Provision of separate computers in Library as well as in every department for ICT use by the students. The overall physical infrastructure is arranged well. Spacious class rooms, separate and sufficient number of toilet blocks, big play grounds, state of art laboratories, drawing halls, seminar halls, auditorium, computer center, gardens, fully computerized administrative office is well equipped and maintained.

Human Resource Management

To promote, enhance and ensure the quality of performance of staff members and to make them more productive, the institute gives following facilities to the staff members: 1. Regular staff members are given benefits like EPF, regular increments, gratuity and other support. 2. The faculty members and staff members are also given other benefits like casual leave, maternity leave, medical leave, earned leave and vacation. 3. Motivating and facilitating the faculty members to participate in Refresher Orientation courses. 4. The faculty development programmes are conducted in the institute to improve the quality of the faculties. 5. The institute also deputed faculty members for attending seminars, workshops,

conferences and STTP in other institutes, industries with financial assistance. 6. Arrangement of computer training programmes for Non-teaching staff. 7. Arranging Medical camp regularly in the college for facilitating health check-up of the teaching and non- teaching staff.

Industry Interaction / Collaboration

Industry plays very important role in the engineering curriculum, and in teaching learning for enhancing the quality of education. By keeping this in mind the institute focuses strongly on interaction with industry. The interaction with industry is strengthened using following quality improvement strategies

1. Institute has signed MOU with various industries for the purpose of project work, research work, internship, training of students and placement activities.
2. Experts from industry are invited for expert talks, seminars, workshops and as an expert for reviewing the project work of UG and PG students.
3. Regular industrial visits are arranged in different industries which enable students to interact with industry persons.
4. Students are encouraged to work on industry sponsored projects.
5. Faculty members undergo industrial training during vacation period.

Admission of Students

1. As P.E.S. College of Engineering is approved by DTE Maharashtra, Institute follows the centralized admission process of Government of Maharashtra which is adopted by Admission Regularity Authority DTE Mumbai.
2. For remaining Institute level admission, Institute floats Advertisement regarding admission in the Newspaper as well as in Local digital Media.
3. Institute also executes the advertisement in Local FM Radio channels as well as by posting hording in main localities of city. Institute ensures that its advertisement should reach to all stakeholders' of urban and rural area of region.
4. Institute also conducts the promotion activities by conducting seminars in all Junior colleges and classes.
5. Institute also participates in Educational Fares organized by various agencies in Aurangabad and in other states of India.

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

E-governance area	Details
<p>Planning and Development</p>	<p>Implemented SMS system for dissemination of information including regular notice to all stakeholders. Use of social media for dissemination of information. Mail communication facility to all departments and staff. The ERP modules of the Institute helps in planning administrative activities. Display of notices for the students through e-noticeboard designed and developed by our students.</p>
<p>Administration</p>	<p>The administration of office dealing with students, faculty, and admissions are fully computerized. Online attendance for all the staff members using biometric attendance system. Accounting software packages for office automation. Use of cloud platform (Google Drive) for collection of information from stakeholders. Circulation of notices using social media platform.</p>
<p>Finance and Accounts</p>	<p>Fully computerized office and accounts section. Maintenance of college accounts using Tally software. Paywihz software is used for salary purpose. Online salary disbursement. Digital fees payment facility for students.</p>
<p>Student Admission and Support</p>	<p>1. Online admission including online payment gateway. 2. Maintaining student's database using ERP software. 3. Online admission to avail hostel facility.</p>
<p>Examination</p>	<p>The institute has the separate Examination control room for effective functioning of examination work. Institute has provided all the necessary equipment as per the requirement of Examination Cell. Examinations are conducted under CCTV surveillance which has helped to check malfunctioning and malpractices respectively. Examination Control cell has separate desktop computer with internet facility for online procedure of paper downloading and further activities for exam purpose. The examination cell has separate machine (printer and Xerox) for printing the question papers downloaded from university portal. All the activities related to examination are governed through online portal of affiliated</p>

university. Students registration form for examinations are online. The hall tickets are received online. All correspondence to University like communicating the end exam results, copies of provisional certificates are all communicated as soft copies and in the form of emails.

### 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
2018	Dr. S.N. Kakarwal	FDP on Python Programming for Image Processing	Government College of Engineering, Aurangabad	1500
2018	M.M. Ambekar	FDP on Python Programming for Image Processing	Government College of Engineering, Aurangabad	1500
2018	V. A. Losarwar	STTP on Machine Learning : The Journey of Transforming Technology	J.N.E. College of Engineering, Aurangabad	1250
2018	Dr. S.N.Kakarwal, D.T.Rathod, V. A. Losarwar	Membership of CSI	Computer Society of India	24780
2019	R. L Shirsat	TIFAN	SAE INDIA	1329
2019	Y.S Sable	TIFAN	SAE INDIA	1329
2019	S.S. Shinde	TIFAN	SAE INDIA	1329
2019	Y.S. Pagar	International Conference	ICCET-2019 DIEMS	4000
2018	D.T. Rathod	International Conference	ICRTAC-2018 VIT Chennai	2360

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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)
2019	-----	Fire Extinguisher	19/01/2019	19/01/2019	0	77

		Training				
2018	Technical Symposium on current Trends in Natural Language Processing and Its Business Applications	----	09/07/2018	10/07/2018	42	0
2018	Expert talk on Research Directions	-----	02/02/2019	02/02/2019	23	0
2019	Seminar on Awareness on Intellectual Property Rights	----	11/02/2019	11/02/2019	110	0
2019	One Week FDP on RFIDs for IOT and Big Data Applications	----	29/10/2018	03/11/2018	32	0
2018	-----	ERP Training	07/07/2018	07/07/2018	0	28
2019	-----	One day workshop on "Basics of Internet Networking"	11/05/2019	11/05/2019	0	21
<a href="#">View File</a>						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
One week FDP on "RFIDs for IoT and Bigdata Applications	16	29/10/2018	03/11/2018	6
STTP on advance manufacturing industry	1	22/02/2019	27/02/2019	6
STTP On IC Engine	2	03/12/2018	08/12/2018	6



Perceptive				
SSTP on 3D Printing	2	11/12/2018	15/12/2018	5
NPTEL online certification Conduction and convection Heat Transfer	1	05/01/2019	04/04/2019	84
NPTEL online certification Law of Thermodynamics	1	16/08/2018	15/09/2019	30
NPTEL online certification IC Engine Gas Turbine	2	05/01/2019	04/04/2019	84
NPTEL online certification Effective Engineering Teaching in Practice	2	15/01/2019	16/02/2019	28
NPTEL online certification Principles of Communication Engineering	1	05/01/2019	04/04/2019	84
NPTEL online certification Developing Soft Skills and Personality	2	16/08/2018	15/10/2018	56

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
32	66	69	11

**6.3.5 – Welfare schemes for**

Teaching	Non-teaching	Students
Accidents Insurance , Group Gratuity Insurance, medical leave, maternity leave to female faculty members.	Accidents Insurance , Group Gratuity Insurance, medical leave, maternity leave to female faculty members. Uniforms to class IV employees	Students Insurance, Financial support for participation in various Competitions, Book bank facility for all students.

**6.4 – Financial Management and Resource Mobilization**

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

The accounts of People's Education Society's(Mumbai) P.E.S. College of Engineering, Nagsenvana, Aurangabad, are regularly audited by our auditors

since its inception. The audit of the financial year 2018-19 was conducted by M/s Bholane Shilawant Co., Chartered Accountants, Aurangabad. Since, our students are availing various Government of India scholarship schemes, all these years, it is mandatory on our part to audit the college accounts, regularly. Also we have to submit our accounts duly audited to Fee Regulatory Authority, our Management etc. Hence, we regularly audit our accounts, every financial year.

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
Vishwakarma Truck Body Building Cluster Madalmohi, Beed and Pratisthan Forging Cluster MIDC Waluj Aurangabad	80000	Consultancy
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6.4.3 – Total corpus fund generated

34999241

## 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	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and Dr. Babasaheb Ambedkar Technological University, Lonere	Yes	IQAC
Administrative	Yes	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and Dr. Babasaheb Ambedkar Technological University, Lonere	Yes	Committee consisting of Dean Academics, IQAC coordinator, Head of Mechanical Department, Registrar and Librarian

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

1. Our Institute Conducts Parents meet regularly. 2. The institute also collects feedback from parents, accordingly corrective measures are taken. 3. We have included parent as one of the stakeholder in IQAC. Their timely suggestions are accepted, reviewed and implemented for corrective measures.

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

1. College ERP Training 2. Fire Extinguisher Training 3. One day workshop on "Basics of Internet Networking"

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

1. Frequency of feedback collection from stakeholders is increased. Proper measures of its analysis have been carried out with modifications and corrective measures are being taken rigorously. 2. To make students ready at the base level for their further education in foreign countries the training program of German and Japanese language is plan. Accordingly, appointment of concern tutors has been carried out. The training program of this two languages are running presently and will be helpful to strengthen their career growth. 3. Timely review of teaching learning process has been taken by IQAC team. All the records are check, necessary suggestions for improvement are given and its assessment is also carried out.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	No

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	Administrative Audit	29/06/2019	27/06/2019	28/06/2019	6
2018	Academic Audit Part-I	18/08/2018	17/08/2018	18/08/2018	98
2019	Academic Audit Part-II	06/02/2019	01/02/2019	06/02/2019	98
2019	Environmental Audit	29/06/2019	29/06/2019	03/07/2019	6
2018	Submission of AQAR 2017-18 to NAAC	31/07/2018	01/07/2018	31/07/2018	20

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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
Self Defense Activity under MISSION SAHASI Project	17/10/2018	17/10/2018	70	0

Nation-wide competition on Laws related to Women in association with National Commission for women	28/11/2018	28/11/2018	41	59
Celebration of International Women's Day-2019	08/03/2019	08/03/2019	94	0

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
In the institute various activities are conducted to address the Environmental Consciousness and Sustainability which are as follows 1. Institute conducts regular Environmental audit. 2. Various Trees are planted in P.E.S. campus 3. Every department is made ecofriendly with proper arrangement of indoor plants. 4. Rain Water Harvesting is done in Institute. 5. Expert talk on environmental issues. 6. We have started to replace Conventional Lights by LED Lights to reduce the power consumption. 7. Energy is saved by adopting solar water heater in Hostels. 8. To Address Environmental Consciousness and Sustainability, Nature Club is formed in Institute. 9. NSS cell of institute conducted several activities for Environmental Consciousness such as Clean up drive and plantation at P.E.S.college campus.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1

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	09/01/2019	1	Contribution in Electrical Safety Audit of Bank of Maharashtra	Detail Electrical safety audit, with reference to CEA 2010, IE rules 1956 and other	5

						related standards and to suggest remedial action plan so as to ensure at most safety of "Human Being", Equipment's and Property from Electrical Hazards i.e. Electric	
2018	1	1	01/08/2018	6	Mahaswata Drive	Cleaning at historical place Panchakki	99
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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)
P.E.S. College of Engineering Code of Conduct	17/06/2019	The Code of Conduct booklet of the institute is circulated amongst the staff, which include the rule and regulation for the following: 1. Job and responsibilities of Academic Dean, 2. Duties and responsibilities of Dean IQAC, 3. Responsibilities of Dean Students Welfare, 4. Duties and responsibilities of Dean Examination, 5. Responsibilities of Dean RD 6. Duties and responsibilities of Head of the Department. 7. Job and responsibilities of Dean Training and Placement Cell. 8. Responsibilities of Dean International Relations. 9. Duties and responsibilities of Dean Entrepreneurship

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

Activity	Duration From	Duration To	Number of participants
<b>No Data Entered/Not Applicable !!!</b>			
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## 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Waste water management system awareness in students.
- Tree plantation.
- Water harvesting awareness in students.
- Development of greenery with proper landscaping.
- Plantation of Tropical plants like neem trees and pimpal.
- Awareness about solar system and saving electricity.
- Solar panel in all the hostel for hot water.
- Making every department eco-friendly with proper arrangement of indoor plants.

## 7.2 – Best Practices

## 7.2.1 – Describe at least two institutional best practices

1. Pass out student's old projects are displayed like Museum to get intuition/motivation for development of new projects. 2. Right from the inception, the institute has the practice of performing all the maintenance works (Electrical maintenance, civil work maintenance, IT infrastructure maintenance, furniture and fabrication work) in-house. 3. Inculcating the moral values by conducting the Buddha Vandana at the beginning of every college activity.

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

[https://pescoe.ac.in/college\\_data/best\\_practices.pdf](https://pescoe.ac.in/college_data/best_practices.pdf)

## 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

Promoting the students to reach at a higher level in their chosen field is our motto. Accordingly, we have initiated and designed a Soft-Skill training module for all the students. This guidance and mentoring help the students to develop their soft-skills in all the dimensions. We promote social activities and support various events for society. As per our vision we motivate the students towards morality and social democracy, to ensure all round development of the students. We regularly conduct such activities in our institute like visit to orphanage center and old age home, Rally related to current and pinching issues, street plays to give important messages to the public. Birth anniversary of our emancipator Dr. Babasaheb Ambedkar is celebrated in our institute. As per our vision and mission to create sound technical manpower with global competitiveness, 18 hours Study Program is conducted at our campus. This promotes learning habit of the students, there by motivating them towards intellectual democracy.

Provide the weblink of the institution

[https://pescoe.ac.in/college\\_data/institutional\\_distinctiveness.pdf](https://pescoe.ac.in/college_data/institutional_distinctiveness.pdf)

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

1. To enhance existing research center of Civil Engineering and to apply for new research centers of other departments. 2. Obtain AICTE /DST/UGC grants from Government sources for minor/major Research projects. 3. To sign more number of MOUs with industries to get industry sponsored projects, internship and training

for the students. 4. Improve teaching-learning environment to achieve Good Results with University rankers. 5. Initiate research culture in institute by arranging workshops, technical events at state, National and International levels. 6. To motivate faculties to publish more number of research papers in UGC approved journals.