Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**P. E. S. COLLEGE OF ENGINEERING, AURANGABAD**
Name of the head of the Institution	**Dr. Abheejit 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**

2. Institutional Status

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

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://pescoe.ac.in/college_data/2018.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://pescoe.ac.in/college_data/BATU-BAMU-ACAD-CALENDER-2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity Period From	Validity Period To
1	**B+**	**2.56**	**2017**	**28-Mar-2017**	**27-Mar-2022**

6. Date of Establishment of IQAC	**25-Jan-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
Internal Administrative	**09-Jan-2020**	**6**

Audit	1		
Regular IQAC Meeting Conducted	22-Jun-2020 1	6	
Regular IQAC Meeting Conducted	26-Feb-2020 1	8	
Regular IQAC Meeting Conducted	12-Dec-2019 1	4	
Regular IQAC Meeting Conducted	02-Nov-2019 1	3	
Regular IQAC Meeting Conducted	12-Oct-2019 1	9	
Regular IQAC Meeting Conducted	13-Sep-2019 1	3	
External Academic Administrative Audit by Dr.BATU, Lonere	20-Nov-2019 1	126	
Internal Academic Audit for Sem-II	22-Apr-2020 4	94	
Internal Academic Audit for Sem-I	19-Sep-2019 6	94	
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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
No Data Entered/Not Applicable!!!				
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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 :	**6**
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 Audit was conducted for all the departments in the college. • Environmental Audit was conducted. • Energy audit was conducted. • Organized one week FDP on 'Scholar Leader Program'. • Faculty Development Program was organized on Communication Skill.

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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 departmental conduction of activity as per respective department Academic Calendar
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 work on real time projects, to do research and 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, Energy Audit, Plantation of trees carried out in 2019-20
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 papers in Journals of International Standards
Faculty Development Programmes	Helped in upgrading knowledge of faculties.
Softskill and CRT programmes	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	16-Jan-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to	Yes

assess the functioning ?	
Date of Visit	**20-Nov-2019**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**28-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)	**I) College ERP Software comprises nearly all activities of a College. There are various modules as follows. 1. Registration cum Admission 2. College Fees 3. Exam Fees 4. Hostel Fees 5. Management of numerous academic batches divisions 6. Maintenance of Student academic profile 7. Student Scholarships management 8. 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. II) College has Erhub LMS. It is a web application containing following modules: 1) Blog : To post the blogs releated to Technical, research activities and research activities. 2) Study: It allows users to share Notes, assignments, question bank. Staff can share lecture wise notes to student. Student can access these notes through there login. 3)**

Edutube: To share video lectures. 4) Online test: To conduct online examination as MCQs. 5) Feedback from Students: Students can give feedback of staff through there login. Student feedback for staff can be seen by particular staff and respective HOD.

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 as 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, technical competitions 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. Selection process of final year projects: Project coordinator is assigned to final year students who assign project guides to these student groups as per area of specialization of the faculty member. The students are encouraged to get company/college sponsored projects with innovative idea. Projects with market potential are considered and supported for development of new start-ups. Remedial Classes are conducted for failure students. 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 employ ability/entreprene urship	Skill Development
RHCSA (CSE) Red Hat Certific ation	Nil	17/08/2019	90	employabil ity	Linux Admi nistration, Product deployment, Big data Hadoop server Admin istration, Cluster Creation and Administrati on
Firebird V robots fundamentals and programming	Nil	04/05/2020	15	employabil ity	Selection of sensor and drives for mobile robot.
Ready Engineers	Nil	11/06/2019	180	employabil ity	Recent trends in Automobile. Personality development, soft skill social respo nsibility.
Coursera Courses on Management	Nil	16/02/2020	30	Entreprene urship	Business Skills
Coursera courses on various Engineering technologies	Nil	20/04/2020	30	employabil ity	Technical Skill, Programming Skills, Design and Development
NPTEL Courses	Nil	02/07/2019	56	employabil ity	Technical Skill, Programming Skills, Design and Development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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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	15/07/2019
BTech	Civil Engineering	01/08/2019
BTech	Computer Science & Engineering	15/07/2019
BTech	Electrical Engineering	15/07/2019
BTech	Electronic & Telecommunication Engineering	15/07/2019
Mtech	Civil Structures	01/08/2019
Mtech	Computer Science & Engineering	01/08/2019
Mtech	Electrical Power System	01/08/2019

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

	Certificate	Diploma Course
Number of Students	412	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
Workshop on Assembly Programming on Robotics Kit	06/03/2020	67
Soft-skill Training	02/09/2019	832
Foreign Language – German Course	11/09/2019	90
Foreign Language – Japanese Course	17/08/2019	180
The One Day workshop on Future is Open for all Engineering colleges in Aurangabad	27/08/2019	500
Seminar on Artificial Intelligence and Machine Learning	04/08/2019	90
Seminar on Industry Trends in Cloud Computing	01/10/2019	60
Webinar on Linux DistrOS	28/05/2020	56
Workshop on Vehicle Dynamics	11/10/2019	59
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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

BTech	Mechanical Engineering	89
BTech	Computer Science & Engineering	186
BTech	Electrical Engineering	95
BTech	Electronics & Telecommunication	16
	[View File](#)	

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

Institute collects feedback from students and teachers in every semester, from parents every year. Also institute collects feedback from alumni and employers frequently. After getting the feedbacks from the stake holders a committee along with the head of the department discuss about the feedback, after analyzing the feedback the appropriate actions regarding the curriculum and extra-curricular activities are taken. 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 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 the 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	90	20	12
BTech	Civil Engineering	60	32	22
BTech	Computer Science & Engineering	90	69	58
BTech	Electrical Engineering	90	16	15
BTech	Electronics and Telecommunication	30	7	7
Mtech	Computer Science & Engineering	18	4	4
Mtech	Electrical Power System	18	11	10
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
2019	1336	57	85	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	Numberof smart classrooms	E-resources and techniques used
94	94	7	13	5	10
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)

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. 6. To motivate the student for getting professional employment. Under this teacher guardian scheme, all the teachers of the college have been engaged as mentors of each class, for 13-18 students under 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 will monitor academic performance of students. Teacher guardian try to improve student's performance by the way of counselling. 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 / extracurricular achievement record, Meeting attendance/discussion record.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1336	94	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
94	94	Nill	Nill	12

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.K. Kadam	Professor	Ph.D. Guide
2019	Mrs. M. R. Rajput	Assistant Professor	Filed and published a Patent on "System for Gender and Age Group Identification from IRIS Images"
2020	Dr.S.N.Kakarwal	Professor	Faculty with maximum publishing in CSI Publications Award, by CSI Annual Convention 2020,
2019	Prof.Y.S.Pagar	Assistant Professor	Best Faculty of the year at TechNext, Mumbai Chapter Computer Society of India on 28th Sept 2019 From CSI student Branch.

2019	Prof.Y.S.Pagar	Assistant Professor	Top performing mentor award by NPTEL For DBMS subject in 2019
2019	Prof.Y.S.Pagar	Assistant Professor	Award for excellence in research at 5th south Asian education awards and summit 2020 at Noida
2020	Prof.Y.S.Pagar	Assistant Professor	Young Scientist Award at India Independence Awards 2019 on 18th Aug 2019 at International Centre Goa, Panjim
2020	Ms. S. M. Salve	Assistant Professor	Outstanding performance in test series program on Internet of things
2020	Dr.R.G.Pungle	Professor	Ph.D. Guide
2020	Dr. S.V. Mundhe	Assistant Professor	Indian Patent (Patent No. 202021022020 A) filed on 26 May 2020
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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
BE	213461210	Sem-VIII	31/10/2020	15/12/2020
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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 nontechnical activities are circulated to all teaching staff and students. It is mandatory to all staff to prepare teaching plan and laboratory plan for allotted subject as per course outcomes. 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 Practical 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 is: 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. 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. 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 currently in 2019-20 we are following Academic calendar of Dr. Babasaheb Ambedkar Technological University, Lonere 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)

http://pescoe.ac.in/college_data/new/PO_PSO_CO.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
213429310	BE	Electrical Electronics & Power	95	95	100
213437210	BE	Electronics & Telecommunications	12	12	100
213424210	BE	Computer Science & Engineering	24	24	100

213419110	BE	Civil Engineering	83	82	98.79
213461210	BE	Mechanical Engineering	59	59	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://pescoe.ac.in/college_data/new/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
Minor Projects	90	Format Ginners Miller Cluster, Pachod Tal. Paithan, Dist. Aurangabad	0.5	0.5
Industry sponsored Projects	365	Tata Technologies Ltd.	0.85	0.85
Industry sponsored Projects	45	Vishwakarma Truck Body Building Cluster Madalmohi, Beed.	0.3	0.3
Projects sponsored by the University	365	P.E.S.C.O.E Aurangabad and Technical support by IIT Mumbai	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
Seminar on Artificial intelligence and machine learning by Rahul Kharat (Head AI ,Xlabs Virtusa,India)	Computer Science and Engineering	08/04/2019
Webinar on "Supply Chains Post COVID19 -opportunities and Challenges for Engineers	Mechanical Engineering	20/05/2020

Online Technical Quiz on Industrial Engineering – Work Study	Mechanical Engineering	06/06/2020
Online Technical Quiz on Design of Machine Elements –Belt drives.	Mechanical Engineering	09/06/2020
Webinar on "Research paper writing Citation Manager"	Computer Science and Engineering	21/06/2020

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
Lean Model for improving educational institute grade and student	Dr. Milind Dhobe, Waghmare Swaraj, Shrinath Sanket and Shejwal Vinod	Intellectual Property, India	06/12/2019	Patent publication
Research Methodology	Yogita Subhashrao Pagar	International Association of Research and Development Organization in association with Gurukul Institute of Engineering Technology, Kota	18/08/2019	Young Scientist Award
Improvement in Security via Biometric Key Generation for Elliptic Curve Cryptography	Yogita Subhashrao Pagar	5th South Asian Education Awards and Summit-20, Noida, New Delhi India	25/01/2020	Excellence in Research
Bus position tracking system	Akanksha Wangikar	Dr.B.A.T.U.,Lonere Avishkar 2019	09/11/2019	Award of Excellence(First) Category UG Discipline ET
Roadpit and Alginate	Sarna Girhe	Dr.B.A.T.U.,Lonere Avishkar 2019	09/11/2019	Award of Excellence(First) Category PG Discipline ET
Plastic Tothole Ashthalt	Shaikh Mohd. Talha Zubair	Dr.B.A.T.U.,Lonere Avishkar 2019	09/11/2019	Award of Excellence(Second) Category UG Discipline ET
A SYSTEM FOR IONTOPHORESIS POWER SUPPLY AND DATA ACQUISITION	Dr. S.V. Mundhe	Intellectual Property, India	26/05/2020	Patent filed
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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 Incubation Center P E S CO E Aurangabad.	Sahil Gopal Naghate	ODSS INFOTECH PVT LTD	Online Examination Center	Conduction of Online Government Examinations	11/06/2019
Nagarjuna Incubation Center	Varad Deshpande, Ameya Bhale, Devendra Dhakne	Titan's Technology Aurangabad	Titan's Technology	IOT, Embedded systems, Web Development, Digital marketing	11/09/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

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 and 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	Civil	1	5.4
International	Electrical Engineering	2	6.2
National	Applied Science	1	Nill
No file uploaded.			

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
Electronics and Telecommunication	7
Electrical Engineering	7
Computer Science and Engineering	4
Applied Science	2
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

Face detection using Logit Boost Algorithm with YCbCr Color space	Dr. V.K.Kadam	Internat ional Journal for Research in Applied Science En gineering Technology (IJRASET)	2020	4	Department of Enginee ring and T echnology, Dr. Babasaheb Ambedkar Marathwada University	Nill
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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
Proactive Neighbor Knowledge based Hybrid Bro adcasting MANET	Dr. S.N. Kakarwal	Internat ional Journal of Engineerin g and Technology 2395-0072	2019	6	Nill	P.E.S. College of Engineerin g, Aurangabad
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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/Semi nars/Workshops	28	102	21	18
Presented papers	8	2	Nill	Nill
Resource persons	Nill	2	Nill	1
No file uploaded.				

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
Visit to GHATI and social contribution toward society	Government Hospital(GHATI), Aurangabad	5	25
Visit to Vrudhra ashram	Matoshri Vrudhra ashram, Aurangabad	10	50
Visit to orphanage	Anandvanashram pali, Beed	2	25
Donation	SOS Childrens	15	35

	Villages of India			
Night Walk	Dainik Divya Marathi, Aurangabad	5		45
A nature Visit of Womens Faculty	Lakxhmi Agro, Aurangabad	19		Nill

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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
No Data Entered/Not Applicable !!!			
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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 activites	Number of students participated in such activites
Tree Plantation	DTE	Tree Plantation	90	100
Social awareness activity	SOS Childrens Villages of India	Donation	15	35
Social awareness activity	Matoshri Vrudhra ashram, Auranganad	Visit to Vrudhra ashram	10	50
Social awareness activity	Anandvanashram pali, Beed	Visit to orphanage	2	25
Social awareness activity	GHATI Aurangabad and PESCOE	Medicine distribution to patients	5	25
Health awareness programs	Shree Hospital and Diagnostic Centre	Seminar on Health awareness	10	36
women self-protection	Dainik Divya Marathi, Aurangabad	Night Walk	5	45
Gender Issue	Cyber Cell, Railway, Aurangabad and Chetana Arts College Savangi	The Gender Equality and Women's Empowerment	50	150

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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

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
Field visit	Educational Visit	Ahemadnagar irrigation department	10/10/2019	10/10/2019	79
Sharing of research Activity	A Guidance Talk	Mr Siddhrath Yawalkear TATA TECHNOLOGIES	08/01/2019	08/01/2019	250
Industrial Visit	Industrial Visit	Excedy India Ltd MIDC Chikalthana Aurangabad.	25/02/2020	25/02/2020	50
Internship	Industrial Training	Bhogle Automotive Pvt Ltd,Aura ngabad	11/10/2019	25/11/2020	1
Internship	Industrial Training	Spark Mind a,Chakan,Pun e	25/12/2019	01/06/2020	1
Internship	Industrial Training	MSEB	01/01/2020	15/01/2020	33
Internship	Industrial Training	Varroc engineering ,waluj,Auran ganad	06/03/2019	15/06/2020	20
Industrial Visit	Industrial Visit	Exceedy India Ltd. MIDC, Chikalthana	22/02/2020	22/02/2020	50
Industrial Training	Industrial Training	Niyo Inovative Solution PVT LTD Waluj MIDC	12/10/2019	30/06/2020	4
Industrial Training	Industrial Training	Sribalaji Engineering , Waluj Midc Aurangabad	12/10/2019	30/06/2020	6
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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
GATE Tutor	30/08/2019	Online GATE classes	750
Jas-Jai Professional Academy LLP	31/03/2020	To train students on emerging topics. To conduct necessary workshops, seminars, lecture.	38
Scout Edutech Pune	02/09/2020	Soft skill training	832
TalentSprint Private Limited,	26/06/2020	To empower women to become world class women software engineer	10
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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
271.42	168.19

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
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	31430	9074219	80	23700	31510	9097919

Books						
Reference Books	3184	1857973	Nill	Nill	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. R. M. Sawant	Analysis of Continuous Beams	You tube Channel https://www.youtube.com/watch?viEwYbt_oC5I	12/05/2020
Dr. R. M. Sawant	Moment Distribution Method	You tube Channell https://www.youtube.com/watch?vrrtPa_nf0oI	10/05/2020
Dr. R. M. Sawant	Slope Deflection Metod	You tube Channel https://www.youtube.com/watch?vYVbXEowAonI	13/05/2020
Dr. R. M. Sawant	Energy Principles	You tube Channel https://www.youtube.com/watch?v1194cdyp4B4	06/05/2020
Dr. R. M. Sawant	Analysis of Fixed Beams	You tube Channel https://www.youtube.com/watch?v49RWtwrgDbQ	01/05/2020
Dr. R. M. Sawant	Method s of Analysis of Indeterminant Structures	You tube Channel https://www.youtube.com/watch?vovoRDLTeCYA	14/04/2020
Dr. R. M. Sawant	Principles for Structural Analysis	You tube Channel https://studio.youtube.com/video/lX-UBG9FY9c/edit	14/04/2020
Dr. R. M. Sawant	Analysis of Trusses	LMS-ERhub	27/04/2020
Dr. R.G. Pungle	VCC	LMS-ERhub	15/05/2020
Dr. M.M. Dhobe	Coupling	LMS-ERhub	14/03/2020

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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	410	15	120	13	1	1	5	120	0
Added	0	0	0	0	0	0	0	0	0
Total	410	15	120	13	1	1	5	120	0

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

120 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	http://pescoe.ac.in/campus/lms.php

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
60.75	5.42	166.67	96.92

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.

http://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	15	609500
Financial Support from Other Sources			
a) National	Scholarship	1338	58498841
b)International	-----	Nill	Nill
No file uploaded.			

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	16/08/2019	1336	PES College of Engineering, Aurangabad
NPTEL –Online Certification Course Mentoring for Database Management System	01/07/2019	21	PES College of Engineering, Aurangabad
Personal counselling and mentoring ARC	22/06/2019	90	PES College of Engineering, Aurangabad
Softskill Development	02/09/2019	832	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	Number of students who have passedin the comp. exam	Number of studentsp placed

			activities		
2020	Carrier counseling on Opportunities after graduation	Nill	55	Nill	Nill
2019	Campus Recruitment Training by Scout	Nill	300	Nill	84
2019	Carrier counseling on Opportunities abroad	Nill	120	Nill	Nill
2019	Carrier counseling on necessity of German language	Nill	120	Nill	Nill
2019	Importance of GRE/TOFEL in foreign countries	Nill	200	Nill	Nill
2019	IELTS one to one session	10	Nill	1	Nill
2019	Japanese Language coaching Program	Nill	150	Nill	Nill
2019	GATE Tutor	750	Nill	35	Nill
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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
Laxmi Componant Forging	81	60	Verroc Engineering Ltd.	4	4
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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
2020	3	BE Civil Engineering	Civil Engineering	P.E.S. College of Engineering. Aurangabad	MTech Civil Structures
2020	1	BE Electronics & Telecommunications	Electronics & Telecommunications	MIT, Aurangabad	Mtech (Embedded)
2020	1	BE Electronics & Telecommunications	Electronics & Telecommunications	Govt. College of Engineering Aurangabad	ME EC
2020	1	BE Computer Science & Engineering	Computer Science & Engineering	Teesside University, UK	Maters in Cyber Security
2020	1	BE Computer Science & Engineering	Computer Science & Engineering	AISSMS COE, Pune	MTech (Computer Science & Engineering)
2020	2	BE Computer Science & Engineering	Computer Science & Engineering	P.E.S. College of Engineering. Aurangabad	MTech (Computer Science & Engineering)
2020	3	BE Electrical Electronics Power	Electrical Electronics Power	MIT, Aurangabad	MTech(Electrical Power System)
2020	3	BE Electrical Electronics Power	Electrical Electronics Power	Govt. College of Engineering Aurangabad	ME(Electrical Power System)
2020	13	BE Electrical Electronics Power	Electrical Electronics Power	P.E.S. College of Engineering. Aurangabad	MTech(Electrical Power System)
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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	2
Any Other	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

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	Elocution Competition on 14th Sept 2019 at The Institute of Engineers	National	Nill	1	20213420 1711242100 02	Hemmant Shettigar, Khadija Anam
2019	Basketball University Competition	National	1	Nill	20213420 1711298100 29	Prasad Madhav Giri
2019	Badminton University Competition	National	1	Nill	20213420 1711612100 01	Rohit Sanjay Vyawahare
2019	Football Tournament at Bhopal	National	1	Nill	1712017	Binbillies Mohammad Faras
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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)

The extracurricular activities for the students during the academic year will be conducted under the student council. The motto of this is to create self-confidence and stage courage in the students. We have made various clubs for the students to offer openness to the shrouded ability in the students. The different student clubs are 1.Urja - It is related to energy, consists of study and visit of non-conventional energy sources power plants. Under this club, student solar ambassadors work shop organized globally on 2nd October 2019 to commemorate the 150th birth anniversary of Mahatma Gandhi. This workshop entailed sensitization of students towards the need to act against climate change, the potential of solar energy to fulfill daily needs and imparting various technical skills to the students including identification of the solar lamp components, learning the use of multimeter, testing of solar panel, circuit, battery and assemble their solar study lamp. 2.Kalarang gives exposure to the hidden arts in the students such as photography, craft, painting etc. under this club student participated in lok-kala mohotsav 2019, in photography category Mr kalpesh kathar second year student of electrical engineering branch got the first prize. In 2019 Chintamani Ganesh organized the photography competition on international level at Mumbai, in that category Mr Kalpesh

Kathar, second year student of Electrical Engineering branch got the first prize. 3.Swarzhankar' related with the different cultural activities, 4.Nisarg' related with nature visited, tracking , bird watching etc. 5.Shabdavedh gives express in elocution, debate competition, essay competition. 6.Pradnya shodh' related with mini projects participation in project competition and science exhibition, 7.Abhiyukti related with motivational speeches ,quiz competition ,aptitude test. The interested faculty members of different branches are appointed as the members of the club and students of all branches are the members of the clubs. These clubs inaugurated on engineers day 15/09/2019 by the auspicious hands of Joint Managing Director Maha Discom Mr.Rekhawar IAS. during the year 2019-20 many of the students participated in activities in state level and national level competitions and bagged the prizes. Also under student welfare we are conducting the annual social gathering, Shivjayanti, Amdedkar Jayanti ,Engineers day, Yoga day, constitution day, teachers day etc. The students also participated in the event like Red FM ke tashanbaaz, 'My FM campus star'. One of our student Diksha Sable got 5th prize in Red FM ke tashanbaaz in 2019.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Registration number: 0222025 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, Seceretary 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 Institute, 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) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

On the occasion of Silver Jubilee celebrations of P.E.S. College of Engineering, Alumni meet was conducted on 16th August 2019. Alumni from various branches were present. Total 62 alumni were present for the meet. . The President of Alumni association of P.E.S. College of Engineering (AAPESCOE) Mr. Pritam Gugly, Secretary is Dr. Varsha D. Jadhav, Treasurer is Mr. Prashan Pandit and the members are Mr. Mangesh Kachole, Ms. Preeti Ghuge, Mr. Dilip Rathod also attended the meet. Few alumni were Mr. Sachin Borse, Mr. Shoen Patil, Mr, Kunal Muley, Mr. Varad Padalkar and many others enjoyed the moment. Mr. Varad Padalkar played table, Mr. Kunal Muley sang a song and Mr. Sudhodhan Gaikwad also sang a song. The alumni shared their memories and were very happy to be back in the campus. Most of the alumni are working in good positions. Some are entrepreneurs, academicians, etc. the event showed strong bonding between the alumni and the college. The event refreshed the old memories and was memorable.

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
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.
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.
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 deputes 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.
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. Institute has dedicated lease line of 120 MBPS which acts as IT backbone for the institute. Also institute is a member of National Digital Library. 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. The institution ensures that the infrastructure facilities meet the requirements of students with physical disabilities by providing ramps and lift.
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 financial support towards travel and registration. Faculties are allowed to attend STTPs, FDPs, by granting their sabbatical leaves. the institute has started an initiative "Engineering Exploration – Project Based Learning", wherein group of students identify some real world problem and try to model and solve the same. The institute encourages faculty members to pursue higher education by giving them permission for course work and study leave. 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 wherein the students are exposed to variety of problem solving methods using Quiz, Surprise Test, Survey, Case Study and mini projects. The record of this evaluation is carefully documented so as to understand the learning levels of the students. The results are declared periodically and steps taken for improvement 6) The end semester university exams are conducted by the university. Practical performance is also evaluated periodically.
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. The classroom teaching is well supported by

	smart boards, LCD projectors and NPTEL videos etc. The academic calendar is strictly followed and monitored for delivering course contents defined by every course teacher in course delivery plan. Faculty conducts various activities for better understanding of the subject: as Seminar, webinar, Quiz and workshops. The industrial and field visits, expert lectures for contents beyond syllabus are organized regularly. 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. The inputs are taken from learners through feedback every semester and are used to sort out the issues related to teaching learning. Faculty also collects unit wise feedback from students so as to revise the difficult unit for the students. Due to pandemic situation, from March 2020 online teaching started. We have used Microsoft Team platform for the online teaching.
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) NPTEL courses on latest technologies. c) Value Added Courses for Students as Robotics Training through e-yantra.

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

E-governace area	Details

Planning and Development	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.
Administration	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.
Finance and Accounts	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.
Student Admission and Support	1. Online admission including online payment gateway. 2. Maintaining student's database using ERP software. 3. Online admission to avail hostel facility.
Examination	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 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
2020	P.D. Mohite	One week STTP on Shifting Teaching-Learning Paradigms through Innovative Pedagogy	NA	1250
2020	Dr. S. N. Kakarwar	CSI Convention at Bhuvaneshwar	NA	2000
2019	V.A. Losarwar	National Workshop on "Filling AQAR under new NAAC process	NA	1000
2019	M.R. Rajput	International Conference on "Advances in Electronics, Electrical Computational Intelligence.	NA	4250
2019	Dr.S.N.Kakarwal, Prof. D.T. Rathod, Prof.V. A.Losarwar	CSI Institutional Membership	CSI	24780
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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	Faculty Development Program	-----	10/08/2019	10/08/2019	90	Nill

	on Communication Skill					
2020	Seminar on NBA NAAC Preparations	-----	15/01/2020	15/01/2020	85	Nill
2020	FDP Scholar-Leader Program	-----	01/06/2020	01/06/2020	25	Nill
2019	------	ERP Training to Office Staff	15/12/2019	15/12/2019	Nill	5
2020	------	Training about handling ICT tools	10/02/2020	10/02/2020	Nill	5
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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
Mathematics:A Practical Approach in Science and Technology	2	28/06/2020	03/07/2020	6
Remote Sensing Geographic Information System (RSGIS-2020)	2	29/01/2020	02/02/2020	5
LeadScape Scholar-Leader Course	20	01/06/2020	05/06/2020	5
Advances Research opportunities in ETC Engineering (FDP)	1	10/06/2020	14/06/2020	5
Advances in smart manufacturing Technology (FDP)	1	30/12/2019	04/01/2020	5
MDP on Leadership for	1	30/05/2020	03/06/2020	5

Change Dr. BATU, Lonere and Baha'i Academy, Panchgani				
Power system analysis using Mi Power by Government college of engineering Aurangabad	1	16/02/2020	20/02/2020	5
Research opportunities in electrical engineering and its applications by PSR Engineering college sivkashi	1	18/05/2020	23/05/2020	6
Neural Network and Deep Learning by Deeplearning.ai Coursera	2	19/04/2020	18/05/2020	30
NAAC awareness programme for faculty by MMIT Lohgaon Pune	4	08/05/2020	14/05/2020	7
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
31	63	68	8

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 2019-2020 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
District Industry Centre Aurangabad (Fabrication Cluster, Ambjogai, Dist Beed), Wapcos Ltd., Aurangabad, Aadarsh Infraspace Pvt. Ltd., K. M. Lalwani, Deputy Regional Engineer, Z P, Radix Association	106110	Consultancy

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6.4.3 – Total corpus fund generated

20855873

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 Technological University, Lonere	Yes	Principal, IQAC Coordinator and Dean Academics
Administrative	Yes	Dr. Babasaheb Ambedkar Technological University, Lonere	Yes	Principal, Registrar, IQAC Coordinator and Dean Academics

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. ERP Training to Office Staff 2. Training to class IV staff about handling ICT tools.

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

1. We have initiated and designed a Soft-Skill training module for all the students. We have started a program named as Project Light House which is a learning cum Employment program run by One Smarter Inc. USA. 2. 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. 3. To make students ready at the base level for their further education in foreign countries the training program of German and Japanese language have been started in the college. an. 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.

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	Internal Academic Audit for Part –I	24/09/2019	19/09/2019	24/09/2019	94
2020	Internal Academic Audit for Part -II	25/04/2020	22/04/2020	25/04/2020	94
2020	Administrative Audit	09/01/2020	07/01/2020	09/01/2020	6
2020	Submission of AQAR 2018-19 to NAAC	14/03/2020	14/12/2019	14/03/2020	20
2019	Environmental Audit	03/07/2019	03/07/2020	03/07/2020	6
2020	Energy Audit	05/03/2020	04/03/2020	05/03/2020	4
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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
Participated in Night Walk arranged by the Dainik Divya Marathi, in Aurangabad	22/12/2019	22/12/2019	50	50

Workshop on 'The Gender Equality and Women's Empowerment'	11/03/2020	11/03/2020	150	50

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

Percentage of power requirement of the College 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 replaced Conventional Lights by LED Lights to reduce the power consumption. 7. Energy is saved by adopting solar water heater in Hostels. 8.Nature Club is formed in Institute to Address Environmental Consciousness and Sustainability. 9. NSS cell of institute conducted several activities for Environmental Consciousness such as Clean up drive and plantation at P.E.S. College campus. 10. No Vehicle day is observed in college on Saturday.

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
Scribes for examination	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	25/08/2019	1	Visit to Ghati and social contribution toward society	Visit to nearby Government Hospital to Understand the various treatment services provided in Hospital, to aware students	30

					about their role for society as an Engineer and Distribution of Medical Kit to needy people.	

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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 for staff	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 Development. The roles and responsibilities of all Deans and HODs are assessed by the higher authorities
P.E.S. College of Engineering Code of Conduct for students	01/08/2019	The code of conduct booklet for student which includes the rules and regulations the student should follow while he is in the college campus. The college disciplinary team observes students

| | | | where they are following the rules or not. If student fails to follow these rules strict action is being taken. |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day Celebration	15/08/2019	15/08/2019	410
Teachers Day Celebration3	05/09/2019	05/09/2019	350
Engineers Day	13/09/2019	13/09/2019	250
Marathwada Muktisangram Day	17/09/2019	17/09/2019	200
Gandhi Jayanti	02/10/2019	02/10/2019	90
Dhammachakra Anupravartan Saptaha Programme	02/10/2019	02/10/2019	200
Rajmata Jijabai Jayanti Celebration	12/01/2020	12/01/2020	25
Namvistar Din	14/01/2020	14/01/2020	250
Republic Day Celebration	26/01/2020	26/01/2020	450
Chhatrapati Shivaji Maharaj Jayanti	19/02/2020	19/02/2020	400

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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. Waste water of RO water purifier is used for gardening. 2. Pass out student's old projects are displayed like Museum to get intuition/motivation for development of new projects. 3. 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. 4. 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

http://pescoe.ac.in/college_data/new/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 have started new program during this year, named as Project Light House which is a learning cum Employment program run by One Smarter Inc. USA. Students are working on live projects under this banner as per their skill set and career interest. Various career paths are like Cyber Security, Big Data, Artificial Intelligence, Data Science etc. 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
http://pescoe.ac.in/college_data/new/institutional_distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

1. To motivate faculties to publish more number of research papers in UGC approved journals. 2. Improve teaching-learning environment to achieve Good Results with University rankers. 3. Initiate research culture in institute by arranging workshops, technical events at state, National and International levels. 4. Encourage faculty to pursue research in basic and applied technology. 5. To enhance existing research center of Civil Engineering and to apply for new research centers of other departments. 6. Obtain AICTE /DST/UGC grants from Government sources for minor/major Research projects. 7. To sign more number of MOUs with industries to get industry sponsored projects, internship and training for the students.