



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		PILLAI COLLEGE OF ENGINEERING
Name of the head of the Institution		Sandeep M. Joshi
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		022-27451700
Mobile no.		9373710001
Registered Email		principalpce@mes.ac.in
Alternate Email		smjoshi@mes.ac.in
Address		Dr.K.M.Vasudevan Pillai Campus, Sector 16, New panvel .
City/Town		New Panvel Navi Mumbai
State/UT		Maharashtra
Pincode		410206

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr. Sharvari S. Govilkar
Phone no/Alternate Phone no.	02227456100
Mobile no.	9819261265
Registered Email	sgovilkar@mes.ac.in
Alternate Email	pceiqac@mes.ac.in

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.pce.ac.in/igac/
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	https://www.pce.ac.in/students/academic-calendar/term-calendar/

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A+	3.3	2020	07-Jan-2020	06-Jan-2025

6. Date of Establishment of IQAC	30-May-2016
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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
Please see the attached file	01-Jul-2019 365	2000

[View File](#)

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
Please see the attached file	Please see the attached file	Please see the attached file	2019 365	62.18
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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 :

3

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 and administrative Audit of all the departments

NSS UNIT Registration

PCE Institute Innovation Council(IIC) formation

Submission of Autonomy proposal to UGC

Participation in National Institution Ranking Framework (NIRF) and Atal Ranking of Institutions on Innovation Achievements (ARIIA)

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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	Achievements/Outcomes				
Please see the attached file	Please see the attached file				
View File					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Board of Governance</td> <td>15-Mar-2021</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Board of Governance	15-Mar-2021
Name of Statutory Body	Meeting Date				
Board of Governance	15-Mar-2021				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	07-Jan-2021				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	16-Jun-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	EduRight is a MIS system which is used for the purpose of admission and fees Collection of students. The portal provides three different modules for the users which are admission and registration, student information, fees and billing. The portal provides all personal and academic details of students of a particular college. The users can search and view all the details of a particular student related to their academic like branch, class, fees and personal details. New students are added periodically in the portal after they take admission in the respective college. The details of the students are maintained and updated until completion of the course. The portal provides options to monitor student fees related to course and other fees like hostel fees. It is a fully computerized system designed to manage, store, track, retrieve, and analyze student related data. The data is saved at a centralized location				

rolebased login access is given to all the stakeholders for ensuring student data security. Functionalities like registration, admission, billing, financial aid provision to students make the entire process of enrollment quick, systematic errorfree.

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

A meticulously planned delivery of the curriculum is achieved through Faculty members by preparing a day-date wise schedule of all contents to be taught through the semester. This Lesson Planning is done by all the faculty members just prior to commencement of the semester and this lesson plan is uploaded on our Academic Monitoring System(AMS). The Head of the Institute as well as heads of the departments consistently monitor the progress of the contents being delivered at frequent intervals during the semester. The academic calendar is made available much ahead of the commencement of the semester to enable the faculty members to plan for timely completion of the contents given in the syllabus. After the lectures are conducted, the faculty members have to update the same on the AMS within a week. A complete record of the lectures planned date wise and the lectures actually conducted, which is part of the course file of individual faculty members, is thus maintained on AMS and can be retrieved as and when required. Towards the end of the semester, the Heads take a review of the syllabus completion achieved and facilitate faculty with extra lecture/practical as per requirements .To ensure the syllabus completion and also to address queries/doubts from the students, additional lectures are planned which is also documented on the AMS. In AY 2019-20, when the entire nation was abruptly shut down in Mid March due to the Pandemic, and in the absence of any clear directives and inspite of the inability to follow the AAA Planner most of our teachers had continued online teaching to ensure syllabus completion. We transitioned from Physical classroom to Online teaching quite effortlessly by extending the help to one another. All the faculty members created their Google Classrooms and continued teaching and provided all possible reading materials to our students to ensure maximum completion of syllabus.Many faculty members created their video lectures and some also made their own YouTube channels, which is beneficial to the entire student community even for students of other institutions. The Internal Assessment which is mandatory in the syllabus was conducted online and the entire assessment was submitted on time to the Examination Cell of the Institute.Webinars , Workshops and short term courses were organised to bridge the curriculum gaps. Documentation of Lectures conducted online is also being planned by collecting the lecture recording links from the faculty.This would eventually be a good collection of courses and would help in creating our own online web content modules for different subjects.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Engineering	NA	18/01/2020	12	employability	Basic and Advanced

Design and Additive Manufacturing using SolidWorks and 3D Printing					modeling using Solidworks, 3D printing
SAP (ABAP)	NA	01/07/2019	12	employability	Advanced Business Application Programming
SAP (PP)	NA	01/07/2019	12	employability	Production Planning
SAP (SD)	NA	01/07/2019	12	employability	Sales and Distribution-better data and work management in enterprises
SAP (MM)	NA	01/07/2019	12	employability	Material management

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Please see the attached file	08/07/2019
View File		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Automobile engineering	01/07/2019
BE	Computer Engineering	01/07/2019
BE	Electronics Engineering	01/07/2019
BE	Electronics and telecommunication engineering	01/07/2019
BE	Information Technology	01/07/2019
BE	Mechanical Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	3786	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

Please see the attached file	Null	807
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Please see the attached file	1910
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	No

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

Feedback Obtained
<p>The institute has a strong 360 ° feedback system. The purpose of this system is to provide a framework for obtaining, summarizing and documenting information on faculty, student, alumni, employer, parent’s perceptions of the quality and effectiveness of teaching, information of which would aid program evaluation and other academic quality assurance processes. Specifically, it provides a framework for Monitoring and improving the quality of students learning experiences through the timely collection, analysis and reporting of feedback concerning teaching, learning, placement and assessment Providing all stakeholders the opportunity to actively participate in the continual improvement of programs. Recognizing, documenting, supporting and extending good practices for effective implementations of curriculum provided by affiliating University Ensuring the provision of information to students regarding the consideration of feed- back collected over time, including actions taken to address concerns raised in any feedback received. The feedback is collected in the prescribed form, from all the stakeholders (i.e. students, faculty, parents, employers and alumni) on the teaching-learning process, infrastructure and curriculum. Students having more than 50 attendance have the opportunity to provide feed-back at various points during the academic year. The feedback on the teaching learning process and curriculum is collected twice in a year. Faculty provides feedback about courses, laboratories, PBL and other activities conducted by the institute. Parents provide feedback about the teaching, learning and communication progress of the institute. Employers provide feedback on the development of students as engineers and professionals. Alumni will give feedback about the program and its relevance to their careers and industry to academic programs. Also the Heads of Departments are responsible for coordination of responses to feedback with follow up action as a remedial measure.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Please see the attached file	732	896	517
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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	2617	49	136	11	4

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
151	151	4	51	7	11
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

PCE has a strong Mentor Mentee scheme in place. All the information regarding Mentor and Mentees is available on a dedicated portal "PCE ASK". ASK provides mentor / faculty and mentee / student with a web application for interaction and storage of vital information. For the mentee, the ASK portal provides the facility to keep all their academic data and co-curricular data in one place which the mentor can view and review any time. Mentee academic data like under graduation, graduation and other examination data can be stored. A mentee can store details regarding workshop attended, skills, academic and non-academic achievements and also extracurricular data they have performed. A mentor can overview varied data of their mentee to continuously keep track of mentee progress. A mentor can also periodically store interaction details with a mentee. The portal facilitates the placement cell of the institute to generate reports related to student academic and co-curricular records. The portal can be accessed through the link: <https://www.pce.ac.in/students/pce-student-portal/>

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2666	151	1:18

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
146	151	Nil	2	30

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	Please see the attached file	Nil	Please see the attached file
View File			

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	Please see the attached file	Please see the attached file	Nil	Nil
View File				

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

Institute implements Continuous Internal Evaluations system as per the guidelines of University of Mumbai. Term work prescribed in the syllabus contains a list of practical and number of assignments to be evaluated at the end of the semester. The following are the processes specifically followed by PCE . Questions of different levels in the test papers are set according to Bloom's taxonomy which also addresses attainment of predefined Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs). The Examination Committee, the Unfair Means Committee, the Department Advisory Committee and the Grievance Committee are responsible for the smooth planning and conduct of the Internal Assessment Tests for all departments. The transparency in the evaluation is maintained by showing the evaluated answer sheets to students and their performance in tests and attendance in college is communicated to the parents in Parents-Teacher Meeting (PTM). Students are regularly evaluated on the basis of assignments, case studies, seminars, mini-projects and laboratory courses. Student's term work performance is evaluated based on all practical sessions performed and assignments done during the semester. Performance in quizzes, seminars, course projects as well as group discussions are also used as evaluating tools for few courses. Project Based Learning which is practiced from FE is also one of the components in term work evaluation Group of Students are given a small open ended problem encompassing maximum subjects that they study in a particular semester. Periodic review of mini projects and final year projects are carried out by internal and external referees.

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

The university provides the annual academic calendar mentioning the start and end dates of semester and the dates of oral / practical and end semester examinations. Referring to these dates college prepares academic calendar for planning the various academic and other curricular and cocurricular activities. Academic calendar is circulated by the Institute/Principal among the students, faculty and other staff members well before the commencement of semester for its execution. The calendar outlines the semester schedule, internal examination schedule, oral/practical and end semester examination, placement

activities, feedback schedule and other curricular and co-curricular activities. It also includes a schedule for distribution and evaluation of various course objectives and outcomes. Each department also has its own academic planner that incorporates all activities that the department plans to organize during the semester for students and staff. It also incorporates the college level and the University level activities. The college is affiliated to Mumbai University so follows the end semester examination time table for all courses circulated by University and conducts the examination according to schedule.

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://www.pce.ac.in/academics/bachelors/>

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
Please see the attached file	BE	Please see the attached file	717	714	99.5

[View File](#)

2.7 – Student Satisfaction Survey

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

<https://www.pce.ac.in/students/student-satisfaction-survey/>

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
Total	365	Please see the attached file	56.95	25.81

[View File](#)

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
One Day Seminar on Intellectual Property Rights (IPR)	Research and development cell	17/02/2019
Seminar on Opportunities in Electric and hybrid vehicles	Automobile Engineering	04/03/2020

Seminar on Web technologies : Industry perspective , Neeraj Gupta and Vishal shetty	Computer Engineering	02/08/2019
Session on ANSYS solution of 5G Technology	Electronics Engineering	04/05/2020
Antenna Design through Simulation using TaraNG: 19.1	Electronics and Telecommunication Engineering	18/05/2020
Workshop on best maintenance practices on Centrifugal pump (Application of Reliability)	Mechanical engineering	20/08/2019
Seminar on Trends in Software Testing, Mr. Shiv P, Test Lead, Arrk Solutions	Information Technology	05/04/2020
Seminar on "Cyber security" by Nikhil Shinagade, Technical Head of Ignicia Technologies And A Renowned Cyber Consultant (Mumbai)	Computer Engineering	27/09/2019
Curriculum Workshop on Development with learner centric approach	ASMH	10/06/2020
seminar on IOT and Start-up opportunities after Covid 19 by Mr. Ajay Kumar Godra	Information Technology	07/05/2020
seminar on Microsoft Azure	Computer Engineering	02/05/2020
Seminar on "Data Science and why it matters? Overview, Application Opportunities" by Mr. Aayush Shah, Mr. Suneet Mehta, Boston Institute of Analytics	Information Technology	29/02/2020
Workshop on "eSim, a First Course in the IoT Series" by IIT Bombay	Electronics Engineering	21/09/2019
Workshop on 'PYTHON for Teachers', IIT Bombay	Computer Engineering	22/06/2019
Workshop on "R Programming Language" By IIT Bombay	Information Technology	09/11/2019
Seminar on "INSPIRIA", by Mr. Yogesh Chabria, Mr. Sameer Narad and Mr. Maruti Pawar	Training and placement cell	12/10/2019

Seminar on "Technologies for Future Cities" by Dr. P Sekhar, Dr. Gupta, Dr. Dalvi, Dr. Habbu, Mr. Lewis	Resaerch and development cell	08/01/2020
Workshop on "LINUX OS" by IIT Bombay	Information Technology	23/08/2019
2 days workshop on Intellectual Property Rights for Academicians and Researchers in association with Pandit Deendayal Petroleum University in association with IPPO	Computer Engineering and Information Technology	10/04/2019

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
Please see the attached file	Please see the attached file	Please see the attached file	Nil	Please see the attached file
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Pillai college of Engineering	Pillai Centre of Innovation and Entrepreneurship	Mahatma Education Society	Whatyoutech (Service Based Business Solution)	Micro, Small Medium Enterprises (MSME)	22/07/2019
Pillai college of Engineering	Pillai Centre of Innovation and Entrepreneurship	Mahatma Education Society	SHRI JI PACKAGING (Manufacturing)	Micro, Small Medium Enterprises (MSME)	01/12/2019
Pillai college of Engineering	Pillai Centre of Innovation and Entrepreneurship	Mahatma Education Society	Outran wearables pvt ltd	Service Based Business Solution	23/12/2020
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
19	9	4

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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	Nil

Computer Engineering	Nil
Information Technology	Nil

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	Please see the attached file	86	4.05
View File			

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

Department	Number of Publication
Please see the attached file	58
View File	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Please see the attached file	Please see the attached file	Please see the attached file	2019	5	Please see the attached file	5
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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
Please see the attached file	Please see the attached file	Please see the attached file	2019	10	10	Please see the attached file
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Nil	112	752	25	282
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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
Please see the	Please see the	199	1882

attached file	attached file		
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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
Please see the attached file	Please see the attached file	Please see the attached file	1766
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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
Please see the attached file	Please see the attached file	Please see the attached file	176	3537
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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
Please see the attached file	5	Please see the attached file	365
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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
Please see the attached file	Please see the attached file	Please see the attached file	Nil	Nil	1404
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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
Please see the attached file	Nil	Please see the attached file	772
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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
300	388

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	17.05	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	25491	10050113	630	317419	26121	10367532
Reference Books	6131	1847722	69	55495	6200	1903217
e-Books	15000	Nil	Nil	Nil	15000	Nil
Journals	90	231225	Nil	Nil	90	231225
e-Journals	336	98690	Nil	Nil	336	98690
Digital Database	1	45000	Nil	Nil	1	45000
CD & Video	1189	16000	Nil	Nil	1189	16000
Library Automation	1	Nil	Nil	Nil	1	Nil
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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 Satish Varma	translation of course content	NPTEL/SWAYAM	19/05/2020
Dr Arun Pillai	translation of course content	NPTEL/SWAYAM	13/05/2020
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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	1277	793	0	0	279	11	164	250	30
Added	0	0	0	0	0	0	0	0	0
Total	1277	793	0	0	279	11	164	250	30

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

250 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
Lightboard for visually dynamic video lectures	https://www.pce.ac.in/library/digital-library/e-content-developed-in-the-institute/
Screencast (Narrated video recording of the computer screen)	https://www.pce.ac.in/library/digital-library/e-content-developed-in-the-institute/
Pentip board recording	https://www.pce.ac.in/library/digital-library/e-content-developed-in-the-institute/
Google Classroom	https://www.pce.ac.in/library/digital-library/e-content-developed-in-the-institute/

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
353	338	140	143

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)

PCE has defined policies and procedures for managing resources and are outlined in the PCE handbooks. These resources include physical facilities and IT infrastructure. The designated resource in charge ensures that Resources are ready and available to utilise whenever required. Resources are repaired, calibrated, maintained and upgraded at optimal levels. Resource utilisation is tracked and records maintained. The availability of the resource is made known to the PCE and campus community. Notify the Principal or HoD in case a resource is under utilised or not utilised. In general, time tables, accession registers, schedules, dead stock registers, issue registers are maintained. In case of resource upgradation or repairing, the resource in charge notifies the nature and reason for the resource to be repaired/upgraded. The cost of upgrading / repairing / replacing the resource is compiled and notified to the HoD. HoD makes the final decision about the resource and includes it in the department's budget. Depending upon the cost of equipment and its maintenance requirement the quotations are invited and the detailed procedure is followed through the finance committee. Laboratory in-charges, along with their respective laboratory assistants, ensure proper working of all equipment before the beginning of each semester. Repair/ maintenance of equipment and instruments is initiated by Laboratory in-charges as and when required and the same is communicated to the respective HoD for further action. CCTVs are installed in the campus, common area, computer laboratories etc for surveillance. Civil, mechanical and electrical maintenance of the entire campus is carried out with proper planning. AMCs are in place for maintenance of Generators, UPS, Water Purifiers, Lifts, Air conditioners etc. General cleanliness of the entire campus is maintained by the housekeeping team. Safety of personnel, buildings and equipment is ensured by periodic testing and maintenance of the fire protection system and equipment. Utilization and maintenance of gymnasium, playgrounds and all sports related equipment and its servicing are carried out under the supervision of Sports Director. Book repository is updated by library staff on a regular basis. Requisitions from the faculty members are collected in the prescribed format for books to be procured. The library committee discusses and approves the procurement of these books. Stock verification of all library books, print journals etc is carried out once in two years. All the classrooms in the institute are ICT enabled and equipped with LCDs, whiteboards, WiFi and soft boards to display the course/learning objectives and outcomes and few of the classrooms also have smart board facilities.. Additional portable projectors are available in each department. Exclusive personnel from the hardware maintenance department are available to constantly monitor, repair and keep up the usage of the systems. Computer configurations are upgraded based on the compatibility required for software and academic requirements. Stipulated procedures are framed and executed for the maintenance of the systems. All classrooms, laboratories are utilized optimally during college hours and available beyond college hours when required by students and faculty.

<https://www.pce.ac.in/about/infrastructure-and-facilities/resource-management-and-infrastructure-policy/>

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	institutional scholarship	586	1528430

Financial Support from Other Sources			
a) National	Government scholarships	950	44232653.5
b) International	nil	Nil	0
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 implementation	Number of students enrolled	Agencies involved
Please see the attached file	Nil	9446	56
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Please see the attached file	1981	3256	84	173
View File					

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
Nil	Nil	Nil

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
Please see the attached file	2805	173	Please see the attached file	Nil	Nil
View File					

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	25	Please see	Please see	Please see	Please see

		the attached file	the attached file	the attached file	the attached file
View File					

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
Nill	85
View File	

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

Activity	Level	Number of Participants
Please see the attached file	Please see the attached file	254
View File		

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	Please see the attached file	National	20	2	Please see the attached file	Please see the attached file
View File						

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

"A council of students at the helm of student affairs is one that looks to bind everyone together and move onwards upwards, together. " Under the guidance of faculty advisors and the Principal, the PCE Student Council is responsible for conducting technical, cultural, social and sports events which include a Cultural and welcome evening for our Freshers followed by Sports events for them Felicitation Ceremony for every year's academic achievers and making sure that they are able to have maximum reach among peers. Events organized by Student Council 2019-20 are : Engineers day 2019 Maker's day - a space where innovation and new ideas are encouraged Freshers 2019 Felicitation Ceremony 2018-19 Cultural Night event during NAAC Visit December 2019 F.E sports 2019-20 Alegria 2020 Cultural days Traditional day Anubhav 2020 During pandemic Online events: Stress Management webinar (Yvette Lee) "Can you Answer ?" Technical Online competition Teachers Day Navratri Quiz Competition PCE has various active student chapters like CSI, IEEE, ISHRAE, ETSA, AESA and MESA, Hyperion Racing, Spark Racing team, Vanguard Racing team, TAPAS, TPC etc. All the student bodies are involved in organizing co-curricular and extra-curricular activities under the guidance of the faculty coordinators. The current pandemic crisis has unfortunately forced us to cease our physical interactions and move the flow towards the virtual world. This, more than anything else, makes it very critical for us, the Student Council, to replicate the execution of all the planned activities on a virtual medium. Hence, we will focus a large chunk of our efforts to execute things as planned with similar success on a virtual medium, until after its deemed safe to return to normalcy. We also intend to make our fellow students aware of the virtual ongoings and manage their

everyday workload via a virtual channel which is critical to ensure a smooth academic functioning. We intend to educate, encourage and tag our fellow mates along on this virtual journey and ensure they have all the tools they require to replicate their functioning virtually. We also plan to propose quite a few virtual workshops specifically targeted for students to get acquainted with, adjusted Excel in the virtual world, the new normal. Institute every year promotes new events and encourages students to participate in various academic as well as administrative committees. This has helped management and faculty in having a better understanding of students and problems faced by them and has greatly contributed to teaching learning processes as a result Institute has produced great results every year. Students represent following academic and administrative bodies of the college: College Development Committee Internal Quality Assurance Cell Anti Ragging Committee Internal Complaint Committee Prevention of Atrocities to SC/ST Committee Student Activities Committee Training and Placement Committee Canteen Committee

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association of PCE was formed in September 2012, named as "Pillai Institute of Information Technology Media Studies and Research Alumni Association". Alumni are the brand-ambassadors of PCE. PCE maintains a strong and a positive relationship with its alumni and can benefit the institute socially, academically and professionally. Likewise even the alumni community have realised that it's not just a mere nostalgia that they associate their PCE with, but it's much beyond that. Some of the PCE focus areas with regards to its alumni are: ? Career Guidance - Alumni is a huge talent pool whose guidance can be beneficial to many students and other fellow-alumni in their respective areas of study. Even in this pandemic situation, the Alumni association conducted several online workshops and webinars, on technical as well as non-technical subjects to guide the students. ? Networking Platform - Alumni network by itself is one of the best professional networking platforms available today. ? Fund-raising - A strong Alumni association can be one of the biggest benefactors of an institution that can contribute towards various developmental activities of the institution. ? Alumni Workshops and Seminars - Alumni regularly conduct workshops/ seminars for the students of various departments. The college provides funding for such events either through student groups or through student activities funds. This provides a platform for alumni to showcase their experience and skills to existing students. Alumni can thus serve as mentors for students, provide placement and scholarships as well as guide the careers of upcoming students. ? MES Alumni Registration - PCE, through MES, provides a uniform platform for all its alumni to register on and network called [alumni.mes.ac.in](https://alumniportal.mes.ac.in). Here PCE alumni can network with and they can track all the other alumni of any MES institute and each institute can keep track of each alumni. PCE also has its own alumni committee and registered organization which manages the day to day activities and financial aspects of the PCE alumni community. Students can register at <https://alumniportal.mes.ac.in/> ? Continuing Education - PCE offers many add on and certificate courses that are offered to alumni at discounted rates. In general alumni can get upto 50 concession in various short term, training courses and certification courses that are offered by PCE. SAP ERP is an application based software used by various multinational companies to manage their business processes efficiently. In partnership with our college, SAP also provides global certification courses to its students at an affordable rate. In this pandemic situation, Alumni associations could conduct several online workshops and webinars, on technical as well as non-technical subjects as much as possible for students.

5.4.2 – No. of enrolled Alumni:

694

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

694000

5.4.4 – Meetings/activities organized by Alumni Association :

03 meetings and 18 activities organized by Alumni association

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)

Pillai College of Engineering is committed to provide intellectual, social, cultural, economic and technological benefits to communities through programs of education, research, training and extension. The institute takes a 360 degree view of the development of the institute and each of its stakeholders like its students, faculty and alumni. It starts with the Board of Governance and the College Development Committee which has representatives of all the institute stakeholders. The commitment is supported by these committees of the institute, which provides planning, strategy, reporting and improvement processes in academic/administrative activities of the institute. The institute has a decentralized approach to quality management where all the faculty and staff are responsible and accountable for quality assurance and enhancement. The various quality standards are monitored by various institutional committees such as an IQAC which also comprises different stakeholders of the institute. The Institute has an organizational structure which clearly defines roles and responsibilities of each individual. The BoG of the Institute provides opportunities for open and healthy communication which makes the environment in the Institute free, fair and transparent to all stakeholders of the institute. Each of these values is clearly articulated in the faculty and student handbooks of the institute. PCE has been developing 5 year perspective plans for the institute since 2004. The plans are developed by the Principal in consultation with various stakeholders like faculty, students, alumni, non-teaching staff, recruiters and local industries. Each plan is then put up before the BoG for review and approval. In the 2019-2024 plan PCE has articulated broad institutional goals such as Empowerment of its stakeholders (Faculty, students, employers, alumni) Increased Industry interactions through training, placement and consultancy Conducting impactful research through its research centers and encouraging technology transfer Creating social, moral, environmental awareness by following best practices such as recycling, using renewable sources or energy, value education, community service etc. PCE also believes in maximum automation of its various processes so that faculty and students can focus on teaching, learning and research. Empowerment of its stakeholders has been a key pillar in the prospective plans of the institute and has adopted various strategies to ensure that faculty and students are able to perform and accomplish their goals at high levels. This includes but is not limited to continuous improvement of laboratory facilities to accommodate changes in syllabus and beyond syllabus which benefits students and faculty to understand and update latest skills and knowledge through schemes like PBL, Makers' Day, and Project Exhibitions etc. In 20 years of existence, PCE has attracted senior faculties from premier institutes like BARC and IIT Bombay to join as faculty. This has further been added to improve teaching and research culture in the institute which resulted in an increase in the number of funded projects and consultancy. They also serve on the various advisory committees of

the institute and mentor the younger faculty members.

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
Human Resource Management	PCE offers incentives to staff members for upgrading qualifications and also has proper policy in place for Career Enhancement. The Staff necessities are acquired from all Heads of Department and assessed by the Principal .Approval is taken from the Management for the same and PCE Management also encourages Faculty members to Upgrade its qualifications and its participations in various Events, Conferences..PCE also offers advantages like Study Leave, Vacation, Medical leave, Maternity Leave, P.F etc as mentioned in Faculty Handbook. The staff is also encouraged to participate in FDP's/STTP's/Workshops/Seminars to upgrade their capabilities in new areas of Industry.
Library, ICT and Physical Infrastructure / Instrumentation	PCE Library is Fully Automated with 25,000 Plus Collections. The collection can be searched from dedicated OPAC terminals and Rack Index. Check OUT and Check IN of Book is monitored through the Book Verification System. Patrons can see the number of books issued, their due date by the help of Library Web Application. Patron visiting into the library can be analyzed or summarized by the Student In Out Counter. Digital library, Wi-Fi is available in library for utilization of e-resources. Institute has well equipped with class rooms, tutorial rooms, computer centre, workshop, sports and gymnasium center, fire fighting system, parking, etc.
Research and Development	PCE encourages and facilitates all Faculty and Students to take part in research activities and publish work in reputed journals and conference proceedings.PCE also have modern RD labs on 3D printing and UXO laboratory in collaboration with New York University, Marron Institute of Urban Management.PCE also provides incentives to faculty members to encourage them to participate in National and

International Conferences by providing ticketing fare. Faculty is also encouraged to apply for research grants under University Minor Research grant, BARC, DST AICTE etc. Students are also encouraged to participate in State/National level Hackathons competitions.

Examination and Evaluation

PCE ensures continuous and lifelong learning of students through different methods such as internal assessment test, assignments, presentations and Case studies. End Semester examination is conducted by University for Regular as well as ATKT students. End semester examination also comprises of Practical/Oral/Presentation examination which is evaluated together by External and Internal examiner as decided by College. Examination committee is formed to ensure smooth conduction of the examinations.

Teaching and Learning

Faculty plans the academic delivery based on Term Calender prepared and circulated by Institute Head before term starts. The lectures and practicals are conducted as per timetable which ensures effective delivery of teaching and learning process. Google classroom, Virtual labs are used by Staff to conduct classes and certain important experiments. PCE follows teaching learning processes as prescribed in curriculum along with Internships, Field Trainings, Student seminars and assignments, Real Life hands on Training apart from regular class room teaching. PCE also offers Value Added Courses in specialized areas of departments ,designed by Faculty members to make students Industry ready.

Industry Interaction / Collaboration

To inculcate the research and development opportunities, Industry-Institute-Interaction Initiative is started. In this various activities like Memorandum of Understanding(MoU) with various companies, Conduction of Seminars/Expert lectures/Guest Lectures, Project sponsorship for BE students, Internship for TE and BE students, Industrial visits ,Project competition is organized. T P cell takes initiatives for collaboration with various MNCs and Local industries for industrial training and internships for students of all departments. Every

department organizes Industry Institute Interaction sessions every semester by inviting Industry Experts/Alumni to interact with students on a variety of topics.

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

E-governance area	Details
<p>Planning and Development</p>	<p>The Academic management is done through In-house developed portals such as (http://ams.pce.ac.in/ams). The lecture planning of all faculty members, attendance, syllabus coverage, Course exit surveys are done through AMS system and Publishing notes/study material for students is done through Google Classroom.</p>
<p>Administration</p>	<p>All records related to students admission and performance are tracked through Inhouse developed Eduright software. Along with that we also have PCE ASK portal for Mentor Mentee Program (http://ask.pce.ac.in/login) and capturing achievements of students throughout his First year till study completing and at the end the ASK portal generates CV for Student based on skills achieved throughout his four years of UG study.</p>
<p>Finance and Accounts</p>	<p>Finance and accounts section uses Tally ERP and excel for carrying out various accounting activities. The payment of salary to the faculty and staff is done through electronic clearance deposited in the bank. The payment of student fees is also received through Online mode using links from Banking partners. Payment to affiliating bodies other stake holders is also done online through portals.</p>
<p>Student Admission and Support</p>	<p>The Admission process is centralized controlled by the Admission Regulating Authority (DTE), Maharashtra State. PCE has developed Students Portal (https://pcestudentportal.mes.ac.in/) for various activities such as Exam form filling, Exam Fees Payment, Academic Fees Payment, Notifications regarding exam cells, Applying for Railway Concession etc. PCE has also developed Students feedback portal an extension of AMS (http://ams.pce.ac.in/ofs/Login) for giving subject related feedback. Display of Exam results is also done through portal</p>

(<http://piitexamresults.piit.ac.in/>).

Examination

All notices are displayed through website related to Examination form filling, fees, notifications etc. PCE has also developed In-house Exam management system using ASP.NET and SQL server to capture marks entered by Faculty, Preparation of results and Displaying results.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Please see the attached file	Please see the attached file	Please see the attached file	74049

[View File](#)

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	Please see the attached file	Please see the attached file	Nil	Nil	1882	17

[View File](#)

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
Please see the attached file	243	Nil	Nil	365

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
2	2	1	1

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Credit Cooperative Society, Maternity Leave EPF, Gratuity, Travel Grants for attending International Conferences in India and Abroad, Permission for Qualification Up gradation.	Credit Cooperative Society, Maternity Leave PF, Gratuity, Permission for Qualification up gradation.	Scholarships (Full and Partial) Government and Institute level, Support for Student's co-curricular Activities, Finance for Racing Car teams (Hyperion, SPARK, Vangaurd)

6.4 – Financial Management and Resource Mobilization

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

Internal Audit: The Mahatma Education Society, parent body of the institution appoints internal and external auditors annually. The audited accounts of PCE are annually scrutinized by the Shikshan Shulk Samiti (Fee regulating body) of the Directorate of Technical Education (DTE), Government of Maharashtra. Auditing processes of PCE takes place in two stages namely, Internal audit and External Audit. The Internal audit is carried out by CA Susanna Co. The Internal auditor is in regular contact with the accounts department, observes and audits the working. PCE is proud that no audit objection has ever been reported in its 20 years of existence. **External Audit:** The external auditors are Mr. Y.S. Muzumdar Co. The auditors are re-appointed by the Governing body each year. Most of the transactions are in non-cash mode and are done using Tally ERP 9 Software. The accounting processes and practices are meticulous and carried out scrupulously by capable people. Regular monitoring of fund flow helps to monitor the financial health of the college and also helps in timely meeting of financial commitments to all debtors and all payment of salaries on time to its employees. PCE has always been a financially prudent institution.

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
Please see the attached file	1914021	Please see the attached file
View File		

6.4.3 – Total corpus fund generated

1914021

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	Local Inspection committee appointed by affiliating University	Yes	Academic Audit Committee

Administrative	Yes	Local Inspection committee appointed by affiliating University	Yes	Administrative Audit Committee
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6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Parent Teacher Association of the College is an active body giving constant support in all the ventures of the college in academic, non-academic as well as infrastructural development. following are the activities carried out by PTA :

- Provides expertise/contacts for essential civil and electrical maintenance work, if the need be, on campus. . .
- Reward for the students excelling in academics and extracurricular activities. .
- Support to carry out activities for NSS, sports and arts. .
- P T A extends help for various cleaning and beautification work of the college. .
- providing financial assistance for economically weak students .

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

- A seminar on “Immunity Boosting” was organised for the support staff
- Yoga classes were arranged by heartfulness meditation for the interested support staff members to maintain good health.
- The basic computer training on MS office was conducted to improve the computer skills of support staff.
- Workshop on Handling Emergencies and First Aid techniques was conducted.
- Workshop on electronic equipment maintenance was conducted.
- Workshop on spoken English was conducted to enhance communication skills

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

1. The Institution Innovation council (IIC) with MHRD has been established to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes. 2. National Start-up and Innovation Policy (NISIP) Committee is formed to create a vibrant local innovation ecosystem, Start-up supporting Mechanism, Pre-incubation of Ideas and develop better Cognitive ability for students. 3. Submission of Autonomy proposal to UGC. 4. Autonomy Curriculum development of all engineering programs. 5. Organizing competitions like Coder of the semester to improve the coding skills of students. 6. Arranging free licenses of Coursera and EDX courses for students to improve their technical skills and knowledge. 7. Industry expert lecture series to improve III and enrich the students with the experiences of the industry environment. 8. Alumni talk series to strengthen the alumni interactions with the Institute and utilise their domain expertise/experience to train on roll students 9. Establishment of Centre of Excellence in 5G network and AI ML. 10. Teachers are encouraged to engaged themselves in Various research-oriented activities like submission of FDP and research funding proposals to AICTE/DST, publications in quality journals and conferences, Imparting knowledge by conducting value added courses in collaboration with IIT Bombay spoken tutorial

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Please see the attached file	Nil	Nil	Nil	1998
View File					

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
Selection of project groups	01/07/2019	31/05/2020	205	491
Entrepreneurship Summit Organized with IWFCI	21/08/2019	21/08/2019	200	150
Deep blue project competition	18/10/2019	15/02/2020	2	24
Womens day celebration	09/03/2020	09/03/2020	20	5
SIH Hackthon national level project competition	18/01/2020	07/08/2020	12	18

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
Out of the various green initiatives taken by PCE, use of solar energy to meet a part of the power requirement of the institute has been initiated since 2010 and a 50kWp rooftop power grid was installed. It was further expanded by adding a 25kWp solar system in the year 2018. Presently the power requirement met by renewable energy sources is 75kWp which accounts for about 29 of the total power requirement in the year 2019-20. There is manpower who takes care of the functioning and maintenance of the system.

7.1.3 – Differently abled (Divyangjan) friendliness

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

Special skill development for differently abled students	No	Nil
Any other similar facility	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	22	15	Nil	365	Please see the attached file	Please see the attached file	5000

[View File](#)

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

Title	Date of publication	Follow up(max 100 words)
Faculty and Staff Handbook	09/03/2019	The faculty and Staff handbook was updated by PCE in March 2019. It provides with the consolidated information the faculty and staff is likely to need in navigating through their career in PCE. It includes policies governing Faculty, Academic Staff (Teaching) and Other Teaching Staff. It consist of the Institute Vision and Mission, Roles and Responsibilities of the Administrators, Institutional Committees, Qualification for Faculty and Staff, Cadre Ratio, Recruitment Policy and Procedure, Employee Code of Conduct, Curriculum Delivery Policy and Procedure, Duties Responsibilities of Teaching Faculty, Leave and Holiday Policy, Faculty Evaluation and Upgradation, Feedback Policy, Resignation and

		Termination Policy, Grievances and Appeal Procedure, Institutional Budgets, Research and PhD Centers within PCE, Examination Policy, Information, Communication and Technology (ICT), Library Policy and Miscellaneous Policies.
Student Handbook	09/03/2019	The student Handbook which is the official statement of the rules and regulations for the students was updated by PCE in March 2019. It is meant to make the student aware of PCE management, student code of conduct, information about Academic Honesty, Anti Ragging Policy, various Students Groups, Student Facilities at PCE, Student Events and competitions organised, different Student Schemes available for the benefit of the students, Sport facilities, Extra and Co-curricular Activities initiatives, Placement drives, associations with Alumni, Grievance Redressal for Students, ICT at PCE and Safety Security Policy followed.
Employers code of Conduct	13/07/2019	The purpose of the Employer code of conduct is to articulate high standards of honesty, integrity, ethical and law abiding behavior expected of all employees. There should not be any charges either from students or colleges for the conduction of campus/pool placement. As per college policy any sort of hospitality will not be paid by college. Chargeable training is against the policy of the institute and we will not encourage such employers

		<p>for campus placement. Employers are requested to kindly notify the college for any selection through email. Employers should not be a part of political, anti-secular activities, Employers should not treat all students with at most respect and should not engage in activities hurting the sentiments of the group or an individual based on their cast or religion.</p>
<p>Parents Code of conduct</p>	<p>06/07/2019</p>	<p>At PCE we are very proud and fortunate to have a very dedicated and supportive Parents and we work cooperatively in the best interest of the students. We expect our parents to respect our college ethos, set a good example of their own behaviour both on school premises and when accompanying classes on college visits, encourage students to take part in extracurricular activities like sports, cultural and social activities, refrain from negative gossip or unsubstantiated criticism that disparages the reputation of the college or its employees, including on social media sites. Parents are requested to attend all PTMs, contact the college directly when you have a question or need clarification of a college matter, ensure that your guard attends college regularly and arrives on time, ensure that your guard may not threaten or approach any student, staff or faculty member in an abusive or intimidating manner.</p>

Activity	Duration From	Duration To	Number of participants
Please see the attached file	Nil	Nil	4000
View File			

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

1. Bio Compost Plant 2. Rain Water Harvesting 3. Plastic free Campus 4. Green Campus 5. Paper less office 6. Wet and Dry waste management 7. Use of Modern Non-conventional Energy Resources

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice: Creating Impact Through Centers of Excellence in Research, Consultancy and Entrepreneurship
Objective of the Practice: The institute requires that its faculty do innovative and impactful research in various fields. In order to do this it is required that the institute identifies areas of research where faculty can complement each others specialization. It is also required that facilities such as equipment and software be made available, industry partners identified, and strategies be developed to commercialize the research work being done. PCE has taken an initiative to strengthen its research and industry connections by setting up centers of excellence in various fields. The Context: Even though the institute received its first major research grant in 2007, there was a lack of research initiative among the faculty. It was noted that faculty should be encouraged to publish papers in quality journals. Upto 2014 the institute lacked any focus areas where facilities can be created and faculty expertise can be developed. Since the resources of the institute are limited it was decided that the institute would pick only certain focus areas of research in which it would excel. The Practice: The various practices which are followed at the institute are: Center of Excellence: PCE has a centre of excellence in order to facilitate and provide new opportunities to the faculty and students. It also helps in providing solutions to specific social and technological issues. NYU Stern is a long term partner of the institute and has established the Urban Expansion Observatory at PCE which aims at measuring the quality of global urban expansion through satellite imageries for fringe areas of 200 cities worldwide. Makers' Studio at PCE provides all fabrication facilities under one roof for the students and comprises all the necessary equipment for cutting, 3D printing, grinding, drilling, milling, soldering, laser cutting etc. PCE has a center where drones can be fabricated and developed and also has professional drones available which are used for consultancy projects. Center of Excellence for Future Cities is established to utilise the expertise available at PCE to cater to issues and challenges related to city and urban development. ?
Entrepreneurship Cell: Pillai Centre of Innovation and Entrepreneurship (PCIE) since its inception in 2015 is an end-to-end support system for budding entrepreneurs in realizing their business ideas culminate into commercial entities. PCIE conducts relevant workshops and seminars frequently which has enabled aspiring students to hone their business and networking skills and embark on entrepreneurial explorations. It also organizes Business Plan Competition to motivate budding entrepreneurs. ?
Industry-Institute Interactions: Joint ventures with various organisations and industries have opened new areas of research and opportunities. Some of them are: MOU with Indian Institute of Packaging which is controlled by the Ministry of Commerce and Industry, Government of India. MOUs for consulting services for IPR and Patent filing between MES and Brainiac IP Solutions. MOUs with IFS Academy, Pune for conducting various value added courses in the institute at subsidised rate. Provide various platforms like Coursera, IIT Bombay Spoken Tutorials to

upgrade the technical and soft skills of the students and make them Industry ready. Organising talk series by industries professionals for the students to make them aware of the industry requirement and develop themselves to bridge the gap between Industries and academics. Evidence of Success: Joint research with UXO has been published in the Economic Survey of India Vol 2 and is one of the documents which form the basis of policy making for the Government of India. Through the annual Business Plan Competition, PCIE has ably supported 10 start-ups in finance, business, marketing space etc. The Maker's Studio generated for the students and research scholars is the most widely used facility every semester and is being used for completion of almost 30 BE projects, 90 PBL projects and 50 PG projects . The Drone lab has been used by faculty to provide consultancy to government and non government agencies like CIDCO, TCE, HCC etc. The amount of consultancy received is about 10 lakhs till date. Institution's Innovation Council - Pillai College of Engineering (IIC PCE) has been awarded 5 Star Rating by the Ministry of Educations Innovation Cell, MIC and AICTE. Problems Encountered and Resources Required: The execution and development of the initiatives has to be done in tandem with the regular academic responsibilities of the staff. Since the number of faculty and students benefiting from the various schemes are increasing more funds are required to sustain research programs. Title of the Practice: Enhanced Teaching and Learning (742) Objective of the Practice: PCE strives hard to bring out the best in students, both by academic success as well as career readiness. This is accomplished through, Extensive academic learning via open book prelims and study camps is practiced to make students more confident in approaching the university exams. Project based learning which helps students to enhance their knowledge by applying theoretical knowledge that they learn during lecture hours to real world problems. Sponsor internal and external competitions where students can hone their skills. The Context: In general the students who are admitted to PCE are not completely prepared for the engineering field and it is a challenge to make them think like an "engineer". In order to boost their confidence and improve performance in University exams study camps and open book prelims have proven to be effective. In addition to examination preparation it is also essential that students have practical experience in solving real world Engineering problems. This is where the institute has implemented project based learning. Here students are given an open ended project and they are encouraged to find different solutions to the same problem. They are also provided with various resources to complete the project. The Practice: Study camp and Open book prelims are organized for extensive learning of the students. Two sets of question papers prepared as per the university pattern based on the entire syllabus for prelims. In study camp teachers help students and guide them in writing answers for the questions. Component library - consist of all the electronic components to possible mechanical instruments, which any admitted student can issue for a specific time period. Makers day - The maker culture is a contemporary culture or subculture representing a technology-based extension of DIY culture that revels in the creation of new devices as well as tinkering with existing ones. With the above spirit, PCE organises a MAKERS DAY every year. The exposure is expected to inspire students to make things, may be for PBL, BE project, mini-project or just satisfying his creative impulse. PBL Project Competition First, Second and Third year students are all assigned a project every semester that incorporates concepts that students have learned during the semester as well as previous semesters. The best projects are given certificates from the department. BE Project Competition BE project competition is organised and top 3 teams from each department are felicitated. The criteria for evaluation is Originality Technical Complexity Commercial viability or Benefit to Society Quality of Literature Review Aesthetics Student Activities Fund- The institute has allotted Rs 10 lakh per academic year for students projects and activities. The scheme is meant to support student groups or individual students

participating in competitions such as Smart India hackathon, Formula SAE etc. The limit for a single student is Rs 10000 and for a group of students is Rs 150000. Value Added Courses: The faculty members at PCE are organizing various value added courses so that students can expertise themselves in their area of interest and learn things beyond academics. Evidence of Success: Indicative success stories in terms of academic results and participation in competitions Reforms in the teaching learning process at PCE are evident from consistent improvement in University results of the First year from about 30 a few years back to more than 60 since the last couple of years. Securing University top ranks in final year is an outcome of consistent efforts. PCE has consistently represented University of Mumbai at state level Research Convention AVISHKAR. The winning project titled Stealth Application is currently used by Navi Mumbai Crime branch to track criminal activities. Right from the first edition of AICTE Smart India Hackathon our student teams have participated in Software as well as Hardware category. In the first edition of SIH 2016, 3 teams got selected for the final round of software edition and one team secured 8th position at all India level. In SIH-2019, 6 teams were selected for the final round and two teams secured first position at two different centers in the software category. Problems Encountered and Resources Required: Resources including teaching and non teaching staff is required to participate in the smooth conduct of the Study Camp and prelims. A large amount of stationary and manpower is required for accomplishing the task. Some of the students who are not willing to participate have to be counselled and motivated by making them aware of the future advantage of the practice.

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

<https://www.pce.ac.in/igac/institutional-values-and-best-practices/>

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

In line to the institutes vision of making responsible technical professionals with the help of trained and dedicated teachers, PCE has taken numerous initiatives to develop both students and faculty. The institute takes a 360 view of the development of itself and all its stakeholders. PCE has articulated broad institutional goals such as Empowerment of its stakeholders (Faculty, students, employers, alumni) Increased Industry interactions through training, placement and consultancy Conducting impactful research through its research centers and encouraging technology transfer Creating social, moral, environmental awareness Maximum automation of its various processes. It believes that this will not only develop professional engineers having respect for the environment and nation but also will contribute to technological development both from an Indian and global perspective. The 360 perspective of the institute and its development is a distinctive aspect of the PCE Mission and Vision. Student centered activity: 1. Enhance teaching learning PCE practices project based learning, extensive academic learning through study camp and prelims, remedial classes for slow learners, mentoring and motivating students to enroll in NPTEL and MOOC courses. 2. Leadership Students council, students in the Institute committee, participation in Alegria and sports events greatly boost up the leadership qualities of students. 3. Research and Industry readiness Institute offers collaborative projects internships in industry. The research centre developed gives them opportunity to work on technological and social issues. 4. Employability Placement drives, Job fairs , Student skill development programs are organised at PCE along with mentoring to make them employable. 5. Social, Moral and Ethical values PCE provides value education to students by organising social events like Community service day and

environmental awareness programs like cleanliness drive. It also inculcates academic honesty by avoiding plagiarism. 6. Entrepreneurship Pillai Centre of Innovation and Entrepreneurship (PCIE) is an end-to-end support system for budding entrepreneurs in realizing their business ideas culminate into commercial entities. PCIE conducts relevant workshops and seminars frequently

Faculty centered activity: 1. Enhanced teaching Learning Faculty members are given continuous opportunities to improve their teaching through regular FDPs, MOOCs and NPTEL. Online platforms are developed for ease of administration such as Mentor-Mentee portal, Self appraisal portal, Academic management system, e-learning studio to create E-content. 2. Research and Consultancy PCE has established various centers of excellence to encourage faculty expertise in certain areas or research. Funds are provided to conduct regular seminars, conferences and workshops on specialised topics of interest. 3. Leadership Institute encourages faculty participation in administration of Institute, memberships in various committees of the University of Mumbai , members of various professional associations etc. 4. Social, Moral and Ethical values Faculty are actively involved in Social events like Community Service day and conservation and recycling schemes. They also follow code of ethics in their research work by refraining from plagiarized work. 5. Professional development PCE offers schemes such as research promotion schemes, IPR support, grants for travel, conferences, support for higher education, support for faculty training, certifications sponsored through remote centers for IIT Bombay, Spoken Tutorials, Coursera etc.

Provide the weblink of the institution

<https://www.pce.ac.in/igac/institutional-distinctiveness/>

8.Future Plans of Actions for Next Academic Year

To accomplish the goals set in the perspective plan of the college, submission of the proposal to UGC for conferment of autonomous status to PCE was on priority in AY 2020-21 after acquiring NAAC A grade in January 2020. Accordingly the proposal is under preparation and will be submitted to the UGC office in AY 2020-21. The pandemic and the Covid-19 situation may force the institutions to continue with the teaching learning activities in online mode for a few more months in this academic year too. The institute has strengthened its IT infrastructure by adding cameras and the licenses of online teaching learning or meeting platforms like Zoom, GoToMeeting. Institute is supported by Google with IT infrastructure, faculty members will be trained for elaborative use of Google Platform like google classrooms, google meets, and other advanced features provided by google and the teaching learning will be continued without any compromise on quality as well as learning experience. Digitisation of lecture notes well in advance considering the lockdown situations is the important task/activity taken up by every faculty member so that the lecture notes/ presentations/ videos/ animations are made available to the students through respective google classrooms and also uploaded on Dspace/Digital library of the institute. The training programs and workshops on digital content development, smooth and optimised used on online teaching learning platforms are planned for the faculty members. Development of inhouse MOOC courses for PCE students are also planned. Video lecture recordings and creation of practical demonstrations is also planned and in progress. All the required efforts to satisfy online teaching learning requirements are made/taken to give uncompromised experience to our students. Campus is kept ready to accommodate students for hands-on experience as and when time permits. Libraries and laboratories are frequently sanitised in regular intervals for every stake holders safety. Innhouse training programs for GATE are also proposed by all the departments. More online internships will be made available to the interested students through PCE placement cell. Free licenses of online courses offered by coursera/Edx are made available to students to improve their technical skills and widen the scope of

future career advancement. Challenging courses on these platforms will be the good learning opportunity for advanced learners. Industry collaborations will be further strengthened by signing MoUs with industries as well as prominent educational institutes/laboratories. This will certainly help to increase students' outhouse/ research projects, create the opportunities of consultancies, technology/IP transfer for faculty as well as students and to boost industry institute relations. Industry expert and alumni lecture series are also planned for onroll students to give them real time and field experience from eminent industry experts as well as alumnus. In addition to this , a required plan for conduct of online co curricular and extra curricular activities is in place. If the lockdown and the pandemic situations are over then the cleanliness drives, plastic collection/recycling drives, vaccination awareness drives are also planned.