



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

1.Name of the Institution		Pillai college of Engineering
• Name of the Head of the institution	Dr. Sandeep Joshi	
• Designation	Principal	
• Does the institution function from its own campus?	Yes	
• Phone No. of the Principal	02227456100	
• Alternate phone No.	02227451700	
• Mobile No. (Principal)	9373710001	
• Registered e-mail ID (Principal)	principalpce@mes.ac.in	
• Address	Dr. K. M. Vasudevan Pillai Campus, Sector 16	
• City/Town	New Panvel	
• State/UT	Maharashtra	
• Pin Code	410206	
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)	03/11/2021	
• Type of Institution	Co-education	
• Location	Urban	

• Financial Status	Self-financing				
• Name of the IQAC Co-ordinator/Director	Dr. Sharvari S. Govilkar				
• Phone No.	0227456100				
• Mobile No:	9819261265				
• IQAC e-mail ID	pceiqac@mes.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.pce.ac.in/igac/aqar-reports/				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.pce.ac.in/students/academic-calendar/term-calendar/#1693217092768-a3f2b7bd-63fc				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A+	3.3	Jan 2020	07/01/2020	07/01/2026
6.Date of Establishment of IQAC			30/05/2016		
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
NIL	NIL	NIL	Nil	NIL	
8.Provide details regarding the composition of the IQAC:					
• Upload the latest notification regarding the composition of the IQAC by the HEI	View File				
9.No. of IQAC meetings held during the year			3		
• Were the minutes of IQAC meeting(s) and	Yes				

compliance to the decisions taken uploaded on the institutional website?		
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10. Did IQAC receive funding from any funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
IQAC PCE has received financial grant of Rs. 50,000/- by NAAC for guidance and support to various HEIs to enhance their accreditation prospects.		
AICTE has sanctioned the AICTE IDEA Lab project to Pillai College of Engineering		
Participated in NIRF Innovation Ranking 2023 and secured position in the band of 151-200 in innovation category		
Revision of curriculum of B.Tech program as per NEP 2020 framework		
"Regular meeting of Academic and Administrative Audit committee to review AAA's submitted by each department and its follow up action."		
12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:		

Plan of Action	Achievements/Outcomes
<p>1. Curriculum Revision as per NEP 2020 framework 2. Inclusion of semester long credit based internship program 3. Adoption of ODL and Hybrid mode of learning 4. Creation of Multilingual course contents 5. Implementation of ABC and adoption of credit transfer policy across institutions</p>	<p>1. PCE has meticulously crafted a revamped curriculum in alignment with the National Education Policy (NEP) 2020 framework which will be effective from 2023-24 admission batch . 2. A semester-long, credit-based internship has been incorporated into the final year of the B.Tech program. This internship provides students with firsthand exposure to operating within multidisciplinary environments, enhancing their readiness for real-world scenarios upon graduation. 3(a) The institute has introduced blended learning for open elective courses within the Final Year B.Tech program. (b) PCE has introduced a range of vocational courses through the Open and Distance Learning (ODL) mode in collaboration with the IITB Spoken Tutorial platform.</p>
<p>13. Was the AQAR placed before the statutory body?</p>	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
Board of Governance	21/10/2023
<p>14. Was the institutional data submitted to AISHE ?</p>	Yes
<ul style="list-style-type: none"> Year 	

Year	Date of Submission
2022-23	23/02/2023

15. Multidisciplinary / interdisciplinary

PCE has meticulously crafted a revamped curriculum in alignment with the National Education Policy (NEP) 2020 framework, following extensive collaborative sessions involving all stakeholders. Scheduled for implementation starting from the academic year 2023-24, this updated curriculum reflects a strategic blend of department-specific elective courses in accordance with AICTE's emerging areas, alongside comprehensive multidisciplinary institute-level offerings across all departments. Central to this curriculum overhaul are mandatory courses emphasizing entrepreneurship, innovation, and financial literacy, integrated into the curriculum starting from the second year. To foster interdisciplinary skills, students are actively encouraged to engage in multidisciplinary projects as integral components of their final year project work. Furthermore, the institute has established an academic memorandum of understanding (MOU) with MGM Health Sciences University. This partnership facilitates collaborative initiatives wherein students gain invaluable experience tackling medical domain challenges through interdisciplinary projects. In addition, a semester-long, credit-based internship has been incorporated into the final year of the B.Tech program. This internship provides students with firsthand exposure to operating within multidisciplinary environments, enhancing their readiness for real-world scenarios upon graduation.

16. Academic bank of credits (ABC):

Under the autonomous curriculum implemented during the academic year 2022-23 at Pillai College of Engineering (PCE), courses were assigned non-transferrable credits. This autonomous status granted us the freedom to design a curriculum focused on students' needs, aligning with the framework of the National Education Policy (NEP) 2020. In line with the NEP implementation at PCE, the institute registered on the National Academic Bank of Credits (ABC) portal. Subsequently, 1750 students from PCE enrolled on the ABC portal. This registration enables students to gradually accumulate credits from various courses, workshops, and educational experiences. Notably, ABC credits are typically transferable between institutions, allowing students to retain credit for their previous coursework. By embracing ABC, PCE showcases its dedication to modernizing education and catering to the changing needs of learners. Furthermore, PCE is currently in the process of developing a policy on credit transfer. This initiative aims to facilitate

smoother transitions for students who plan to transfer to other schools or pursue further education in different locations.

17.Skill development:

Aligned with the National Skills Qualifications Framework, Pillai College of Engineering (PCE) has seamlessly integrated credit-based vocational education courses into its curriculum, aligning with the NEP 2020 framework. These courses focus on programming and hardware development, emphasizing practical, hands-on learning experiences that complement theoretical knowledge. Within these vocational courses, students have the opportunity to gain expertise across various practical domains such as hardware, networking, plumbing, carpentry, PCB design, smithy, and welding. By engaging in these courses, students acquire practical skills and knowledge directly applicable to specific industries. This emphasis on vocational education not only enhances students' employability but also equips them with valuable expertise that they can apply at any stage of their engineering program. It ensures that students are well-prepared to enter the workforce with the practical skills needed to excel in their chosen fields. The Pillai College of Engineering envisions fostering Value-Based Quality Education among its students, emphasizing the cultivation of soft skills and ethical values such as honesty, integrity, compassion, and empathy. To realize this vision, PCE has integrated credit-based courses like human values and social ethics, as well as professional communication skills, into its curriculum. These value education courses aim to promote holistic development and character building among learners. In addition to formal coursework, value education is further reinforced through non-credit activities organized by student clubs like NSS PCE and TAPAS PCE. NSS PCE engages students in various activities focused on civic responsibility, social justice, and environmental awareness. Meanwhile, TAPAS PCE conducts Yoga and Meditation workshops to foster peace, nonviolence, and stress management among students and faculty members alike. Through these initiatives, PCE is committed to instilling values that shape ethical individuals and responsible citizens, preparing students to navigate complex challenges with integrity and empathy.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Starting from the academic year 2023-24, PCE has revamped its curriculum in alignment with the NEP 2020 framework, with a special focus on incorporating Indian Knowledge Systems (IKS). As an integral component of the curriculum, the first-year level now offers a specialized course dedicated to IKS. This course is a

fusion of insights from the Vedas, Bhagwat Puranas, ancient urban planning, trade practices, and ancient material technology. The assessment of this course is distinct, relying on live projects that showcase the application of knowledge acquired through the IKS curriculum. By seamlessly integrating IKS into the engineering curriculum, PCE provides students with a unique opportunity to delve into India's rich cultural and historical heritage. PCE enthusiastically observes Marathi Bhasha Divas and Hindi Bhasha Divas through a variety of programs that showcase the linguistic richness of Marathi and Hindi. As a starting point, PCE has embraced a multilingual content delivery approach to cater to the diverse student population. The institution is actively involved in initiatives aimed at honoring and reveling in India's rich cultural heritage. Celebrations at PCE extend to various festivals such as Diwali, Dussehra, and Christmas, all marked with vibrant enthusiasm. In tribute to the cultural legacy of the state of Maharashtra, PCE commemorates Chhatrapati Shivaji Maharaj Jayanti. The Traditional Day, organized by the Student Council of PCE, provides students with a glimpse into the diverse cultures and traditions that make up our country.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

PCE provides a range of 14 programs in Engineering and Technology, all structured around outcome-based education (OBE). Each program articulates specific Program Outcomes (PO), Programme Specific Outcomes (PSO), and course outcomes, with a focus on cognitive abilities like Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating. Beyond domain-specific skills, the learning outcomes at every level emphasize social responsibility, ethics, entrepreneurial proficiency, and a commitment to lifelong learning. The Course Outcomes (COs) are intricately aligned with both PO and PSO, representing the expected knowledge and skills a student should possess upon completing a course. These COs are meticulously defined for all courses across the diverse programs, taking into account Bloom's Taxonomy. Lectures, seminars, tutorials, workshops, practical sessions, project-based learning, fieldwork, internships, and research projects are strategically planned to facilitate the achievement of these defined outcomes. As proposed in the NEP 2020 framework, a semester-long, credit-based internship has been incorporated into the final year of the B.Tech program to meet the requirements of OBE. Internships serve as a practical and integral component of outcome-based education. The Internship program at PCE aims to provide students with opportunities to achieve specific learning outcomes, develop essential skills, and bridge the gap between academic learning and real-world application.

20.Distance education/online education:

The institute has dedicated significant resources to incorporating blended learning and Open and Distance Learning (ODL) into the undergraduate (UG) curriculum content delivery. As an initial move towards embracing ODL, the institute has introduced blended learning for open elective courses within the Final Year B.Tech program. Specifically, students are being offered NPTEL Swayam courses in digital business management and digital marketing as part of the open elective curriculum, delivered through a blended mode of learning. This approach enables students to interact with course materials according to their individual pace and schedule, catering to various learning styles and preferences. PCE has introduced a range of vocational courses through the Open and Distance Learning (ODL) mode in collaboration with the IITB Spoken Tutorial platform. This partnership ensures that the courses offered align closely with current industry standards, practices, and emerging trends. Among the courses available in the ODL mode are Java, R, and Python programming. By leveraging the ODL mode, students benefit from hands-on learning experiences and practical skill development while minimizing overhead costs associated with traditional learning methods. This approach allows learners to access a diverse array of vocational courses and training programs, enabling them to stay updated on industry advancements, enhance their skill sets, and progress in their careers.

Extended Profile**1.Programme**

1.1 21

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 2877

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2

652

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

2731

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

703

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

144

Number of full-time teachers during the year:

Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	21
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	2877
File Description	Documents
Institutional data in Prescribed format	View File
2.2 Number of outgoing / final year students during the year:	652
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	2731
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	703
File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	144
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	148
Number of sanctioned posts for the year:	
4.Institution	
4.1	205
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	62
Total number of Classrooms and Seminar halls	
4.3	1269
Total number of computers on campus for academic purposes	
4.4	1445.62892
Total expenditure, excluding salary, during the year (INR in Lakhs):	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Being an Autonomous Institution, the Primary objective of our institute is to educate and train a diverse population of students to become responsible professionals, entrepreneurs or researchers. All departments have a systematic procedure for development, revision and implementation of curriculum.

The Curriculum is designed to make the students industry ready and

have the required domain knowledge, skills and attitude. The factors considered while designing curriculum are: 1. requirements of industry and suggestions by industry experts and alumni 2. The Program Specific Outcomes of professional bodies, 3. Syllabus of various reputed Universities 4. Syllabi of various competitive exams like GATE, IES, etc, 5. Model curriculum prescribed by AICTE for implementation of Outcome Based Education along with the guidelines of the National Education Policy.

PSOs and PEOs for each department have been defined after much deliberations and involvement of stakeholders. Workshops, seminars and webinars have been conducted to educate the teachers about the outcome based education and its implementation.

The COs represent the expected knowledge and skills a student acquires at the end of a course. COs have been thoughtfully defined for all courses across the various programs being offered. Bloom's Taxonomy is also kept into consideration while defining the COs. Internal Assessment test questions are prepared based on COs.

The students are motivated to upgrade their knowledge by undergoing MOOCS courses through NPTEL, SWAYAM, EDX, COURSERA. Mini projects are incorporated from semester I and students are advised to do multidisciplinary, industrial projects. Furthermore the Internship is compulsory for all the students in VIII Sem.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.pce.ac.in/academics/bachelors/computer-engineering/curriculum/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

17

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

426

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

451

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

21

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Professional Ethics, Human Values: Our students learn courses as Professional Communication Skills and Human values & Social Ethics, Ethical Hacking and Cyber laws. Programs such as Community Service Day, Uber Rang, and Teachers Day are organized in PCE. PCE has "TAPAS" a wellness and meditation club which has organized the Meditation Challenge to inculcate human values and professional ethics. NSS PCE has arranged various webinars and activities to inculcate human values amongst students and faculty members. Students and Faculty reports/papers/thesis are checked for plagiarism using TURNITIN software to maintain Professional Ethics.

Women Rights and Gender Equality: PCE has established the Society of Women Engineers (SWE-PCE) chapter to cater specifically to girl students. Various workshops and mentoring sessions are arranged by SWE-PCE. It organizes STEM Outreach activities for underprivileged middle and high school girls. Women's day is also celebrated each year at College Level. In project group formation it is suggested to have at least one girl student in the group. This practice actually helps the girls to overcome inhibitions and function effectively and prepares them for their future.

Environment and Sustainability: Nature club, NSS organizes activities to inculcate awareness towards environment as Environment awareness rally. Survey to Chikhale Village was done under Unnat Bharat Abhiyan .which address diverse social and environmental issues.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

11

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

387

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1326

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.pce.ac.in/wp-content/uploads/2023/11/img5273.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.pce.ac.in/wp-content/uploads/2023/11/img5273.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

2877

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

179

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

PCE is committed to ensuring a tailored and supportive learning environment through well-defined policies and procedures. In the teaching-learning process, course-in-charge and class counselors employ a keen observation of students' performance in various activities and assessments throughout the semester to identify

both slow and advanced learners. To address the needs of slow learners, remedial classes, special counseling, and extra sessions are organized. The Mentor-Mentee scheme facilitates ongoing monitoring of students' progress and challenges. Regular Parent-Teacher meetings provide a platform for updating parents on their ward's performance. For slow learners, initiatives like access to e-books, subject-specific video lectures, question banks, and faculty-prepared notes are in place. High-achieving students are encouraged to aim for top university ranks and pursue exams like GATE, GRE, TOEFL, IELTS, and CAT, with teachers conducting additional sessions for GATE preparation. Value-added courses and diverse opportunities at district, state, and national events contribute to holistic student development. Students inclined towards research are motivated to showcase their work in conferences and competitions like Avishkar. PCE is dedicated to fostering a dynamic educational experience that caters to the diverse needs and aspirations of its students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/students/student-activities/student-awards-and-achievements/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2023	2877	144

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

PCE is dedicated to elevating the student learning experience, placing it at the core of the institute's vision and mission. The institution is committed to providing hands-on and experiential learning, manifested through various activities: Mini projects included in the curriculum is a cornerstone, where students engage

in defined projects aligned with their theoretical subjects each semester, fostering practical implementation in collaborative group settings. The institute's infrastructure includes a fully-equipped Maker Studio, featuring laser cutting machines, 3D printing machines, CNC machines, and tinkering workstations, empowering students with state-of-the-art tools. A Component Library facilitates student access to a range of engineering tools and components, such as Arduino boards, microcontrollers, motors, sensors, etc., for project utilization. Virtual labs and the promotion of online courses on platforms like NPTEL, SWAYAM, EDX, and COURSEERA contribute to a dynamic learning environment. The institute encourages diverse learning avenues, including case studies, online internships, webinars, and industry expert talks across all departments. Student chapters and affiliations with professional organizations like CSI, IEEE, MESA, ETSA, AESA, and ISHRAE drive student-led activities such as webinars, expert talks, and competitions, enhancing their exposure to the professional world. This approach fosters the development of coordination, leadership, team-building, management skills, and technical prowess. Furthermore, the institution actively engages students in hackathons and startup challenges, promoting problem-solving abilities and innovative thinking.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://www.pce.ac.in/students/student-activities/student-associations/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

PCE places a paramount focus on nurturing innovation and creativity in both its student body and faculty. Various initiatives are in place to harness ICT-enabled tools for an enriching teaching-learning experience: The institution boasts a dedicated "E-Learning Studio," equipped with an in-house developed Light Board and recording facility, blending traditional chalkboard elements with modern projection screens. Faculty-produced videos from this studio, featuring interactive, audio-visual tools, digital resources, animations, and simulations, are shared with students via platforms like YouTube. Online teaching is seamlessly facilitated through Zoom and Google Meet, allowing faculty members to conduct lectures, practical sessions,

discussions, and examinations. Google Classroom is actively employed for assignment distribution, quizzes, and online submission processes. Incorporating digital resources, teachers utilize E-books, E-Journals, and Digital Databases to enhance the teaching-learning process. Faculty members continuously enrich their expertise by enrolling in and earning certifications from NPTEL, Coursera, and Edx courses, deepening their knowledge in specific research areas. Furthermore, virtual laboratories are implemented to ensure a continuous learning experience and introduce students to novel setups and experiments. PCE's comprehensive approach to integrating innovative ICT tools fosters an environment where both faculty and students can thrive in the realms of technology and education.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.pce.ac.in/academics/e-learning/
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

127

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic Calendar is prepared prior to the beginning of every semester for the smooth functioning through proper execution of academic and non academic activities of the semester. All the academic and non-academic activities are planned in advance to be executed throughout the semester. After the commencement of the lectures midterm tests are conducted to evaluate the performance of the students. Parents Teacher meeting is also planned in the mid of semester to have interaction of parents with the subject

faculties and to make them aware of their child performance. Academic Management system in the institute is used by faculties to upload all the academic data like teaching plan, lecture attendance, IA marks etc. which is regularly monitored by HODs and Principal. There are two Internal Assessments conducted in a semester. After which the viva practical examinations are conducted. A time of a week or 10 days is given as a preparatory leave before the final exams are conducted. After the final exams are over 4-5 weeks' time is given to do the industrial or in-house internships before the other semester begins.

Exams, supplementary exams are planned well ahead and included in the term calendar to ensure smooth functioning of the academic activities and also to convenience students and teachers. Slots for internships for students and vacation for the faculty members are also provided in the term calendar, which makes it convenient to plan the schedule.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

144

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

29

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1319

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

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

15

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

451

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Each student's performance in every course undergoes a comprehensive assessment, incorporating (i) Internal/Continuous assessment during the semester and (ii) End Semester Examination. The Continuous Internal Assessment (CIA) comprises examinations held twice per semester, alongside periodic assignments, tests, and quizzes. The process is seamlessly managed by an in-house developed software for the Examination Management System (EMS), ensuring automation and efficiency. This software handles student registration, hall ticket generation, result gazette creation, result declaration, and issuance of final grade cards. To uphold assessment uniformity, question paper setters are selected from a regularly updated panel of examiners, adhering to University eligibility norms. Evaluation schemes and solutions are provided to examiners before assessment to maintain consistency. After assessment, answer papers undergo moderation, and the Examination Cell compiles marks/grades to prepare the result gazette, accessible online through the student portal. A transparent reevaluation process is facilitated through an open day, allowing students to review their answer papers. Grievances can be addressed through a prescribed application form. Supplementary Examinations are conducted twice annually for failing/absent students, following both Odd and Even semester regular examinations. Those failing in the supplementary exam can appear for the Backlog examination held at the end of each academic year, ensuring opportunities for academic progression.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://pcestudentportal.mes.ac.in/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Course Outcomes (COs) embody the expected knowledge and skills acquired upon course completion, meticulously tailored for diverse programs with consideration to Bloom's Taxonomy. Collaboratively defined by course teachers and senior faculty aligned with the University syllabus, each course typically features 4 to 6 COs. These COs are introduced during initial lectures, subject to approval by department-level committees for any necessary revisions. COs and their achievements are detailed in Course Assessment Reports, influencing strategically designed Internal Assessment test questions targeting specific outcomes. Since 2015, the National Board of Accreditation (NBA) has instituted 12 Program Outcomes (POs), ensuring uniformity across the Undergraduate Engineering Program. Workshops educate teachers on outcome-based education. Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) are crafted collaboratively for all undergraduate programs. Displayed prominently, these outcomes undergo regular calculation and reporting to the Internal Quality Assurance Cell (IQAC) for annual review, fostering a commitment to continuous improvement.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://www.pce.ac.in/academics/bachelors/computer-engineering/program-overview/

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The systematic attainment process for Program Outcomes (POs) and Course Outcomes (COs) involves direct evaluations throughout the semester, utilizing lab work, assignments, tests, seminars, mini-projects, and study camps. Indirect CO attainments are gauged through the Course Exit survey, with a 70% weightage for direct attainment and 30% for indirect, resulting in the overall CO attainment. Linking COs and POs is achieved through mapping, with direct PO attainments measured on a 3-point scale, complemented by indirect feedback from alumni, graduates, and employers. The

weighted average of direct and indirect attainments determines the overall PO attainment. Program Specific Outcome (PSO) attainment from COs follows a similar 3-point scale mapping process as PO attainment. Course Assessment Reports (CARs), essential for all courses, gain approval from department-level committees and form the basis for PO and PSO attainments. Head of Department meetings regularly review CARs, initiating actions to enhance attainment in courses reporting lower levels. Interventions like bridge courses and workshops are introduced for subjects requiring improvement, ensuring a dynamic approach for continuous enhancement in program outcomes.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/academics/bachelors/computer-engineering/program-overview/

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

638

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.pce.ac.in/igac/annual-reports/

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

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

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Institute has recognized Research Centers in the departments with necessary software and computing facilities for carrying out research activities for promoting quality research publications and developing collaborations to enhance industry - institute relationships through MOUs for widening the scope of innovation and research. The institute encourages the faculty by providing incentives for peer reviewed publications, writing books and filing patents. Institute encourages faculty members to enhance their academic qualifications or professional competence by participation in FDPs/ STTPs/workshops/conferences by providing leave and/ or financial support. Faculty and students are encouraged and provided financial support for attending conferences, participation in project competitions. In addition, the institute gives awards to students under categories such as Best Project Awards, Outstanding Student Award, Best Student of the Department, Class Topper Award etc. The well-defined progressive policies resulted in better outcomes and helped for excellence in teaching, receiving grants and consultancy work for research projects that showed a significant rise in research, consultancy, infrastructure and placement. Faculty members have enhanced academic qualifications with quality research publications. Students have won several awards and recognitions at various competitions including AICTE SIH, DEEP BLUE, AVISHKAR, and IIC NIC. For research facilities view <https://www.pce.ac.in/research/research-facilities/>

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.pce.ac.in/about/mandatory-disclosure/pce-handbook/
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

19.29742

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

4

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/research/research-and-consultancy-grants/research-grants/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

24

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.pce.ac.in/research/research-and-consultancy-grants/research-grants/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Pillai Centre of Innovation and Entrepreneurship (PCIE) is set up with advanced equipment that are funded by DST, AICTE ,industries to support UG, PG and PhD students to conduct research. It is a

forum to assist in developing entrepreneurs and support innovative ideas from ideation to fruition. Financial support is extended to the students for exhibiting their models at the Idea Generation Contests, Competitions held by other organizations. The Local Entrepreneurs are invited to interact with the students and inspire them through awareness meets, workshops, seminars and guest lectures on Entrepreneurship. Institute has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish function ecosystem for scouting Ideas and pre-incubation of ideas and develop better cognitive ability for technology students. Incubation cell helped more than 20 start-up companies. Students are provided facilities to build prototypes useful for promotion of Agriculture and Rural Development. Students are awarded cash prizes for best models. As an outcome of funded projects, Robotics and Automation Station is set up to provide research infrastructure. Facilities designed to facilitate the test and development of systems and solutions for Industry 4.0. The 5G Communication Station is set up for conducting research in 5G communications technology."

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/iic/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

30

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the **A. All of the above**

**following: Research Advisory Committee
Ethics Committee Inclusion of Research
Ethics in the research methodology course
work Plagiarism check through
authenticated software**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

0

File Description	Documents
URL to the research page on HEI website	https://www.pce.ac.in/research/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

38

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

19

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/research/publications/

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

196

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

50

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

2.5106

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Institute conducts various extension activities and outreach programs in collaboration with Industry, Community, through student chapters, TAPAS-PCE and NSS in the neighbourhood community to sensitize students to social issues and holistic development. The NSS unit helps to solve the social difficulties of neighbourhood community and works towards the betterment of the society. These social outreach programmes brought a great impact on the holistic development of the students as they came across different categories of the people and their living standards. NSS-PCE unit had conducted different activities such as Organ Donation awareness project, Health checkup programme in collaboration with

MGM Institute to celebrate World Physiotherapy Day as well as Body and Organ Donation Awareness Programme. A survey to Chikhale village under UBA was conducted with the help of around 30 volunteers. A meditation camp was organized for all First year students in collaboration with Team TAPAS-PCE. NSS-PCE unit has also conducted a one week residential camp at Shivansai Village, Post Ambe. TAPAS-PCE is a wellness and meditation club emphasizes the well-being of students' mental health by organizing various informative sessions on topics including meditation, mental health, inner peace, etc. TAPAS-PCE has organized various activities such as Trip to Kanha Shantivanam, Dhyranratri, Udyanotsav 2022 etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/extension/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

2

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

19

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1795

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

491

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

12

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

PCE is committed to provide high quality education through classroom teaching, practical training, and by providing excellent infrastructure and experience. The Institute fulfils all the norms specified by the statutory bodies in terms of land requirement,

instructional, administrative and amenities area. The college houses spacious and sufficient classrooms, seminar halls, state of the art auditorium and conclaves. There is an abundance of infrastructural resources such as Lecture Halls, Tutorial room, Drawing Halls, Seminar Halls, Laboratory, Library, Office, Exam Cell, Workshops, Conference Halls, Auditorium, Research and Incubation center, E-Learning Studio. All classrooms are equipped with ICT facilities which render content delivery for lectures at an elevated platform for disseminating data, videos, demonstrations and simulations. Each department has one smart class room. PCE has over 62 state of the art teaching laboratories fully equipped for enhanced teaching and learning experience for students. The laboratories are well equipped with latest equipment like 3D printer, Laser cutting machine, CNC machines, and softwares/simulation tools like Rational Rose, Oracle, NS2, MATLAB, LABview, ANSYS, AUTOCAD, etc., to give hands on experience to satisfy industry needs. PCE has a fully-fledged language lab with the latest language tools that students can use to improve their English speaking and writing skills and learn new languages.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/academic-infrastructure/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

PCE has modern and futuristic facilities enabling student community to qualify and to participate in various national and international level competitions. PCE has a full-time sports director to train, equip and guide students in various sports. PCE has indoor games facilities like air-conditioned sound proof six lanes Olympic level size shooting range with internationally approved rifles. It also has designated areas for games like Chess, Carrom and Table Tennis. Multipurpose Polyurethane outdoor sports complex with area 968 sq mtr to play various sports like Volleyball, Basketball, Ball badminton, Handball and Futsal. In addition, a multipurpose ground measuring 211m x 94m designated with different courts for Football, Volleyball, Kho-Kho, Cricket, Kabaddi, Ball Badminton, Handball and running track fulfil most of the outdoor sports requirements. PCE has won many sports awards at University, State, National and International level. Regular Yoga

sessions are organized for students and faculty members. PCE has gymnasium which is equipped with facilities like treadmills, cross-trainer, recumbent bike, abdominal machine, dumbbells and gravity expansion and many others. PCE encourages students to participate in various co-curricular, extra-curricular, social and cultural activities by providing facilities like Auditorium, mini-auditorium, multiple open area theatres and conclaves. Many cultural events like Alegria, Uber- Rang, Tech-Alegria, Inter-class sports tournaments etc., are organized on campus.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/sports-facilities/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

62

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

571.1064

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The PCE library is automated using KOHA ILMS software. It is installed, configured, maintained and upgraded by the PCE library team on a regular basis. The Main reason for using KOHA ILMS software is that it is Open Source and internationally accepted. KOHA ILMS software is web-based software that can be accessed from anywhere in the world. KOHA is a fully featured, scalable library management system.

KOHA continues to evolve and expand to meet the needs of its user base. KOHA includes modules for acquisitions, circulation, cataloging, serial management, authorities, flexible reporting, label printing, multi-format notices, offline circulation for when Internet access is not available, and much more. KOHA will work for consortia of all sizes, multi-branch, and single-branch libraries.

URL : <http://koha.mes.ac.in/>

URL : <http://opac.mes.ac.in/>

Year

2022-2023

2021-2022

2020-21

2019-2020

2018-2019

ILMS Name

Koha

Koha

Koha

Koha

Koha

Nature of

automation

Fully automated

Fully automated

Fully automated

Fully automated

Fully automated

Version

21.11.05

21.11.05

17.05

17.05

17.05

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://koha.mes.ac.in

4.2.2 - Institution has access to the following: A. Any 4 or more of the above
**e-journals e-ShodhSindhu Shodhganga
 Membership e-books Databases Remote
 access to e-resources**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

4.75613

File Description	Documents
Audited statements of accounts	View File
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

241

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

IT infrastructure facilities are created taking into consideration the requirements of all the stakeholders. It includes:

a) Server: Institute has 7 high configuration servers such as ENTAB XEON, NPTEL XEON, MASTER XEON, DIGITAL LIBRARY XEON , ACCOUNTS XEON, and LMS.

? High Performance Systems: CPU AMD Ryzen 5 5600X 3.7 GHz 6-Core

Processor, Motherboard MSI MPG B550 Gaming Plus ATX AM4, GPU GeForce RTX 3060 Gaming X 12G, Memory Corsair Vengeance RGB Pro 32 GB DDR4-3600 CL16 Memory, and NVME SSD Crucial P1 1 TB M.2-2280 NVME SSD.

? Computers are upgraded with i5 Processor, 16GB RAM and SSD (240GB) replacing traditional HDDs.

b) Main Firewall: Cyberoam 2500, Router, Airtel Wi-Fi, CISCO Networking Switches, 1308 Computing Machines (i5 Processor)

c) Other peripherals: Institute has 91 printers, 71 projectors, 7 smart boards, 30 ChromeBook, 30 WEBCAMs.

d) Software: Six legal system software like Windows, Linux etc. and 37 application softwares, Lantive software purchased for fully automated timetable construction & MATLAB purchased for technical computing.

f) Educational Annual ZOOM Licenses 30 Nos.

Internet and Wi-Fi: 250 Mbps bandwidth

Security Arrangements: Cyberoam CR2500iNG - 10.6.5

Response: >=50 MBPS

Following process is adopted for upgradation of IT facilities:

? During non-academic period assessment for replacement / upgradation / addition of the existing infrastructure is carried out based on the suggestions from HoDs, faculty, lab technicians and system administrator after reviewing course requirements, computer - student ratio, budget constraints, working condition of the existing equipment and also student grievances.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/it-facilities/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2877	1269

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus **A. 50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing **A. All four of the above**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/academics/e-learning/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

332.3911

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The college adopts best practices for scalable and sustainable implementation of all IT services. It provides computing and networking services such as desktops, Wi-Fi based internet to all departments, library and office. Classrooms are ICT enabled and equipped with LCDs, whiteboards, WiFi/Broadband. Appropriate standards are followed for selection, purchase, setup and maintenance of all computing and networking equipment, the choice of protocols for stored and transmitted data security. In general, time tables, accession registers, schedules, dead stock registers, issue registers are maintained. CCTVs are installed in the campus, common area, computer laboratories 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.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/resource-management-and-infrastructure-policy/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1947

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

95

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://www.pce.ac.in/students/get-career-ready/value-added-certificate-programs/
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

240

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

240

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

42

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

94

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

8

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

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.

Events organized by Student Council 2022-23 are:

Aavishkar Workshop

Teachers' Day

Garba Night

Community Service Day

FE Sports Day

Alegria 2023:

The most celebrated college festival of Navi Mumbai just considering the reach it has over the years is remarkable.

We conducted various events like, Women's Day, Freshers and Student Council Felicitation, Shivaji Maharaj Jayanti, Traditional Day, Cultural Days, Farewell, Youth Festival

Apart from the student council, PCE has various student chapters like CSI, IEEE, ISHRAE, ETSA, SWE PCE, SAE PCE, AESA-MESA, Hyperion Racing, Spark Racing team, Vanguard Racing team, TAPAS, TPC, etc. All the student bodies are involved in organizing activities under the guidance of the faculty coordinators.

Students represents the following academic and administrative bodies 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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/students/student-council/#1700740942917-7b5181bb-9338

5.3.3 - Number of sports and cultural events / competitions organised by the institution

16

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Alumni Association of PCE was formed in September 2012, named as "Pillai Institute of Information Technology Media Studies and Research Alumni Association". 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.

? Alumni Workshops and Seminars - Alumni regularly conduct workshops and seminars for the students of various departments. The college provides funding for such events either through student groups or through student activities funds.

? MES Alumni Registration - PCE, through MES, provides a uniform platform for all its alumni to register on alumni.mes.ac.in. 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.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/alumni/alumni-contribution-engagement/

5.4.2 - Alumni's financial contribution during the year C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Pillai College of Engineering is committed to providing intellectual, social, cultural, economic & technological benefits to communities through programs of education, research, training, and extension. The commitment is supported by the management of the institute, which provides planning, strategy, reporting, and improvement processes in the academic/administrative activities of the institute. PCE has a clearly defined vision and mission that is in line with the institute's vision of making responsible technical professionals with the help of trained and dedicated teachers. PCE has articulated broad institutional goals that will not only develop professional engineers who have respect for the environment and nation but also contribute to technological development both from an Indian and global perspective. The institute takes a 360 view of the development of itself and all its stakeholders. There is a feedback system that seeks feedback from students, employers, alumni, and parents to develop and evaluate teaching and learning pedagogy, curriculum design, social outreach initiatives, and industry-oriented programs. Almost every faculty is a member of various committees to ensure value addition

and overall development of students. The faculty appraisal system, feedback mechanism, transparency in decision-making, policy framing, knowledge sharing, and action implementations help to enhance the governance of the institute.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/academics/stakeholders-feedback/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

PCE promotes and practices decentralization in all academic and administrative activities, it has various academic and administrative committees to monitor, plan, and execute the smooth functioning of the Institute. PCE encourages a participative and proactive approach of its staff for the development of the institute. Ideas collected from all the stakeholders are valued and implemented for better and effective functioning of the institute. PCE always encourages faculty members to update themselves with new software technologies.

One such software that PCE procured is MATLAB Campus-wide suite.

Case Study on Purchasing MATLAB Campus-wide Suite:

To keep our students and faculties abreast with new technological developments it was decided to procure a MATLAB Campus-wide license for the PCE campus. The proposal and quotation were submitted to the HOD of the Automobile Engineering Department which was forwarded to the Principal for final approval. During the HOD's meeting, the proposal was put forward and it was also decided to include MATLAB in the curriculum right from the first year of engineering. The management and Principal gave the final approval for the purchase of software and PCE is now MATLAB enabled campus. This highlights the effectiveness of leadership towards the overall development of stakeholders.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/about/institute-organogram/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Pillai College of Engineering was established in 1999 and since 2004 has developed a perspective plan every five years starting from the year 2004, then in 2009, 2014 and the latest one in 2019. Each plan is developed by the Principal, representatives of the Board of Governors, the heads of the various departments, and a member of the non-teaching staff. The plan lays out the goals of the institute for the upcoming five years, by thoroughly analyzing the previous plans and listing out their successes as well as analyzing the challenges still faced by the institute. It also lists out the strategies to achieve each and every goal of the institute. In 2014, it was also decided to sign strategic MOUs with various industries that involve research & knowledge sharing. PCE encourages and supports faculty members to pursue higher education, as a result, many faculty members started pursuing doctoral programs. Internships and Industry projects for students are encouraged and many industry-oriented Certificate/Value Added Courses are offered to students. Thanks to its strong research focus, PCE is now an approved Ph.D. center of the University of Mumbai in the fields of Mechanical Engineering, Computer Engineering, Information Technology & Electronics Engineering.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.pce.ac.in/academics/ph-d/electronics-engineering/program-overview/
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Institute is managed by the Board of Governance, constituted as per the guidelines stipulated by AICTE. The members of the BoG discuss and decide policies and action plans for fulfillment of the stated Mission.

PCE has decentralized its operations and has delegated authority at various levels to ensure good governance. As per Organogram, the Principal takes guidance, directions, and approvals from the Board of Governance for various academic and administrative activities of the Institute. The Principal is the academic & administrative head who monitors the overall functioning and has powers for academic, administrative, financial, and institute growth.

The Institute has IQAC and the College Development Committee (CDC) working under the Principal to strengthen the academic quality. These committees advise the principal and the authorities above him on various quality initiatives that need to be undertaken by the institute. The principal interacts directly with HoDs, Dean R & D, Examination Cell, Placement Cell, Registrar, Librarian, and Student Council for the conduction of various activities in the department/ Institute. An example of this is the Institute level Committee formation for the revision of a curriculum based on NEP 2020.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.pce.ac.in/about/institute-organogram/
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/faculty/faculty-handbook/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Institute understands that faculty is the backbone of the educational system. Therefore the skill sets and the core competency of faculty are required to be upgraded on a regular basis. The Institute encourages faculty and staff members to acquire the latest skills by supporting them to attend various programs and has a sponsorship fee reimbursement scheme for STTP/Workshop/Trainings/Professional Membership. The institute also reimburses travel costs for faculty for traveling to conferences outside of Mumbai.

The Institute facilitates various soft-skills training programs for teaching and non-teaching staff members. The Institute recognizes the need for continuous qualification upgradation. The institute motivates and supports faculty members financially to acquire higher degrees from renowned and accredited Universities.

Welfare Schemes for Teaching Staff are Credit Cooperative Society, Maternity Leave, EPF, Gratuity, Travel Grants for attending International Conferences in India and Abroad, and Permission for Qualification Upgradation.

Welfare Schemes for Non-Teaching Staff are Credit Cooperative Society, Maternity Leave PF, Gratuity, and Permission for Qualification upgradation.

Welfare Schemes for Students are Scholarships (Full and Partial) Government and Institute level, Support for Students' co-curricular Activities, Finance for Racing Car teams (Hyperion, SPARK, Vanguard), and also for students' projects, and Student Project Funding.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/faculty/faculty-development-schemes/#1562997251488-83705190-9f83

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

24

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

25

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

49

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal Audit: The Mahatma Education Society, parent body of the institution appoints internal & 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 take place in two stages namely, Internal Audit & External Audit. The Internal audit is carried out by CA Susanna Cherian. The Internal auditor is in regular contact with the accounts department for guidance and regular observation of the operations of the Accounts department. 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 & 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 a timely meeting of financial commitments to all debtors & all payment of salaries on time to its employees. PCE has always been a financially prudent institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/mandatory-disclosure/university-affiliation/

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

867096

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

PCE is a linguistic minority institution. Therefore, the funding required for running the college is mostly self-generated. The institute's budget is the primary instrument of fiscal control and, accordingly, contains all projected revenues and expenditures of the administrative and academic programs. In general, salaries of teaching, non-teaching, and administrative staff are fixed as per their qualifications and experience and are notified separately by the management of the institute. Also, examinations are conducted as per the examination policy of the university, and exam fees are charged separately from the students. The fees approved by the Shikshan Shulk Samiti (FRA) of the Directorate of Technical Education, Government of Maharashtra, that the students pay is the main source of funds for the operational purpose.

Keeping in mind the academic calendar of the institute we allow various agencies to utilize our well-equipped laboratories, classrooms, and all other infrastructures for conducting various examinations, conferences, and seminars which generates additional funds. The institute has a Policy for budget and it is mentioned in the Faculty and Staff Handbook.

The Chartered Accountant does the audit and makes sure that the mobilization of the resources is being done properly.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/about/mandatory-disclosure/pce-handbook/

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The PCE IQAC highlights the pivotal role of curriculum design and content delivery in shaping the quality of teaching and learning. It stresses the need for ongoing curriculum review and updating, alongside advocating for the integration of technology tools such as virtual labs and online platforms to enhance engagement. To foster continuous improvement, the IQAC recommends external audits to identify areas for enhancement and implement corrective actions.

1. Curriculum Design in accordance with NEP 2020 framework:

The PCE IQAC has guided departments on integrating the NEP 2020 framework into the undergraduate curriculum, set to commence in the academic year 2023-24. This updated curriculum incorporates department-specific elective courses aligned with AICTE's emerging areas, along with comprehensive multidisciplinary offerings at the institute level. In alignment with NEP implementation, the institute has registered on the National Academic Bank of Credits (ABC) portal, with 1750 PCE students enrolled. Furthermore, the institute has introduced blended learning for an open elective course on digital business management and digital marketing through the NPTEL Swayam portal.

1. Incorporating a semester-long credit-based internship program:

A semester-long credit-based internship program is now part of the

final year of the B.Tech program, providing students with valuable hands-on experience across various disciplines to better prepare them for post-graduation challenges. To ensure the quality of this initiative, the PCE IQAC has developed a detailed internship policy document, distributed to all stakeholders. It covers internship categories, monitoring and evaluation guidelines for faculty and industry mentors, and criteria for successful completion.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/wp-content/uploads/2023/08/B.TECH-Computer-Engg-syllabus-w.e.f-FY-2023-24-August-2023.pdf

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

In 2022-23, PCE's IQAC conducted both internal and external audits, comprehensively reviewing teaching, research, co-curricular activities, infrastructure, and administration to maintain quality standards in higher education institutions.

PCE has meticulously crafted a revamped curriculum aligned with NEP 2020, following extensive collaborative sessions w.e.f A.Y. 2023-24. It features department-specific electives, interdisciplinary options, and mandatory courses in entrepreneurship, innovation, and financial literacy from the second year. Additionally, a semester-long credit based internship is now part of the B.Tech final year.

Teacher training and professional development are crucial for enriching educational experiences at PCE. The institution offers financial support to teachers attending seminars, workshops, and conferences. Collaborations with esteemed institutions like IIT and DST facilitate networking opportunities and enable the showcasing of teachers' research work. Notable events include the "Advances in Polymer Processing in Sustainable Development" conference and the DST Inspire Fellowship Review Meeting. Plenary talks at CTFC focus on cutting-edge topics like cybersecurity, 5G, and hydrogen energy, underscoring PCE's commitment to staying abreast of emerging trends.

Incremental improvements made during A.Y 22-23 :

1. The institute signed 11 MOUs with industries, fostering research collaboration and student internships.
2. PhD intake increased in Mechanical Engineering, Computer Engineering, and Information Technology.
3. Six faculty members at PCE completed their Ph.D. in 2022-23.
4. Faculty and students collectively filed/received 10+ patents/copyrights, and published 50 research papers in esteemed journals.
5. Over 50 students were admitted to foreign universities for higher studies.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/wp-content/uploads/2023/08/B.TECH-Computer-Engg-syllabus-w.e.f-FY-2023-24-August-2023.pdf

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.pce.ac.in/igac/annual-reports/#1701255715537-5c908665-64d8
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

PCE's have the leading priorities like gender equality and women's empowerment. Within the institute premises we constantly strive to promote gender equity and bring about positive attitude change. We also have a Mentor Mentee Program in our institute. According to that program every student at the institute has a mentor assigned to them which guides the students to excel in both academic and non-academic matters. Institute has employed a full-time counselor who is accessible to help students with problems relating to their personal and social lives.

STEM Outreach Activities on the occasion of Women's Day and woman's day celebration is done every year. About half of the institute's employees are women. Girls get access to a separate common room at the institute. On May 13, 2021, SWE PCE Affiliate was put into place. The objectives, guiding principles, and advantages of the Society of Women Engineers were briefly explained to the participants. Security personnel are also deployed and CCTV is being monitored closely to ensure the safety of the female employees in the campus. The Internal Complaints Committee was established to address the concerns voiced by female students and maintain a safe environment for them.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/students/student-activities/student-associations/swe/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Removing, discarding, recycling, or destroying unwanted materials helps in keeping the environment clean. Keeping this in perspective, Pillai College of Engineering uses designated trash cans to gather various types of waste at the source. Organic waste is collected in green trash cans, and non-biodegradable rubbish is collected in blue trash cans. The garbage is collected by the municipal workers, and all of the organic waste from the canteen and gardening trash is recycled to create high-quality manure that is utilized for indoor gardening. This is carried out at a composting facility on the campus.

The institute recycles non-potable water for flushing toilets and watering plants, among other uses, and collects rainwater. All of the outdated, non-operational electronic products are donated for recycling, and new electronics that abide by environmental protection laws and power consumption standards are regularly acquired.

Reusing electronic parts and performing routine maintenance help to reduce electronic waste. A Biocrux plastic bottle recycling machine has been erected on the Pillai College of Engineering's

campus in association with Reliance India Ltd. All of the plastic bottles are placed in a machine that shreds them into tiny pieces, which are then recycled to make other goods like bags and t-shirts.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

B. Any 3 of the above

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance,

A. Any 4 or all of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Pillai College of Engineering (PCE) is a Malayalam Linguistic Minority Institution with the main objective of building students with high technical and moral values.

Every year, the PCE celebrates various events and festivals like Helping Flood Affected Areas, K-12 programs, visiting orphanages, awareness programs, Onam, Garba, Marathi Rashtra Bhasha Diwas, Shivaji Jayanti, etc. These environments bring the institution's teaching and non-teaching staff from diverse cultural backgrounds together to work in harmony toward societal and environmental causes.

They also keep the spirit of integrity high in the PCE campus by encouraging students to participate in all the activities with great enthusiasm and joy which resulted in students learning the art of living by supporting social activities, engaging in cultural activities, and realizing the importance of treating everyone equally regardless of race, religion and to become responsible citizens. The academic year 2022-23 has become a second normal routine year after the pandemic, so all the events and festivals are conducted with limited faculty members and students following the government norms and guidelines.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

To teach students about human values, the institute offers various courses like webinars, seminars, motivational speeches, and workshops. The webinar is organized by ETSA PCE. The speakers for the event shared their views and motivated us all to choose the career paths we chose. The speakers made the audience speak up, come out of their fear, step out of the boundaries, and make themselves grow towards the "fearless me".

PCE conducted a seminar "Search Engine & SEO" on 10th March 2023 . It was an informative seminar for every participant. They explained their work experiences, recent techniques, job opportunities, and other future growth. Also, conducted an event for female faculties on Women's day to encourage them in their works and their needs. ETSA PCE organized a motivational speech session on "Think Like a Proton," . This session helped us mold our thinking process in a more "positive way". Mrs. Gayatri Dantal who is a motivational coach commenced the workshop by giving a brief knowledge of happiness. This session helps our students face problems and learn how to come out of them. Various meditational events were organized by PCE. The main attraction was a trivia competition with the theme "Entrepreneurship and Start-up Culture."

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this A. All of the above

regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

After a gap of two years, PCE was able to celebrate all the national and international commemorative days, events and festivals in complete offline mode. The celebrations included Independence Day and Republic Day, commemorative days like Teacher's Day, Engineer's Day and International Women's Day and festivals like Dussehra. Everyone was glad to be part of the in-person celebrations this year. India is a multicultural nation with a strong spirit of festivity and celebration. Through these celebrations we were reminded of our great history and the potential that we carry as a nation.

The cultural events organized as part of these celebrations gave everyone a break from the routine academic activities and helped getting rejuvenated for the academic rigor. Several of our fellow staff members and students showcased their extra curricular skills. A lot of effort was put in by several people to make these celebrations a success. Such functions help to build the culture of the institute and bring the staff members and students closer.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Practice`1 : Broadening the Educational Horizon based on Institute Objectives

objective: Enhance education with diverse learning experiences and critical thinking to foster holistic student development.

Context: Improve education by providing diverse opportunities and implementing a well-designed curriculum for well-rounded graduates.

Practice: The curriculum integrates industry-specific electives and multidisciplinary offerings, aligning with institute objectives.

Evidence of Success : The institute received the Times ASCENT Skill Development Leadership Award and excelled in SIH and UoM Avishkar Research Convention, enhancing higher study prospects.

Problemsand Resources Required: Funding for programs and infrastructure upgrades pose challenges. Required resources include financial support, training initiatives, and facility expansion to effectively broaden the educational horizon.

Practice 2: Fostering Awareness for Holistic Well Being

Objective: Cultivate awareness for holistic well-being by promoting mental, physical, and emotional health for individuals and communities through educational initiatives.

Context: Strive to enhance well-being through educational efforts emphasizing mental, physical, and emotional health, fostering

awareness among individuals and communities for a holistic approach to overall well-being.

Practice: The institute conducted diverse programs, including awareness on organ donation, cancer, and personal hygiene, along with an osteoarthritis screening camp. Additionally, yoga, meditation sessions, elective courses on cooking, nutrition, and visual art were provided, sensitizing students and faculty to mental and physical health.

Evidence of Success: Over 1000 students and faculty benefited from these diverse programs backed by the Institute's NSS unit and Tapas Chapter.

Problems and Resources Required : Challenges include resource constraints, limited participation, and the need for sustained engagement in the ongoing academic activities

File Description	Documents
Best practices in the Institutional website	https://www.pce.ac.in/igac/institutional-values-and-best-practices/
Any other relevant information	https://www.pce.ac.in/students/student-activities/student-awards-and-achievements/

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The institute diligently endeavors to cultivate an ecosystem that empowers its graduates to become highly employable, accomplished researchers, or successful entrepreneurs.

For enhancing employability, a diverse array of elective courses, audit options, and skill enhancement programs are provided to impart specialized knowledge. The inclusion of a semester-long internship program in the curriculum ensures that students are industry-ready, facilitating better placement opportunities.

In promoting research, a dedicated Electronics Engineering research center was established, and intake capacity was expanded for existing centers in Mechanical, Computer, and Information Technology domains. A separate budget allocation supports research

initiatives at the undergraduate, postgraduate, and Ph.D. levels. Project competitions and conferences are organized, motivating students to produce high-quality research projects and publish papers. Internal hackathons further augment problem-solving skills.

To nurture entrepreneurship, the institute established LaunchpadX, a Section 8 Company serving as an incubator for aspiring entrepreneurs. Ongoing support for student and faculty startups is complemented by activities organized by the Institute Innovation Council, such as business plan competitions, motivational talks, seminars, and workshops.

These initiatives have significantly contributed to the holistic development of students, evidenced by improved placement records, increased student publications, heightened participation in hackathons, and a rise in student patents and startups.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Being an Autonomous Institution, the Primary objective of our institute is to educate and train a diverse population of students to become responsible professionals, entrepreneurs or researchers. All departments have a systematic procedure for development, revision and implementation of curriculum.

The Curriculum is designed to make the students industry ready and have the required domain knowledge, skills and attitude. The factors considered while designing curriculum are: 1. requirements of industry and suggestions by industry experts and alumni 2. The Program Specific Outcomes of professional bodies, 3. Syllabus of various reputed Universities 4. Syllabi of various competitive exams like GATE, IES, etc, 5. Model curriculum prescribed by AICTE for implementation of Outcome Based Education along with the guidelines of the National Education Policy.

PSOs and PEOs for each department have been defined after much deliberations and involvement of stakeholders. Workshops, seminars and webinars have been conducted to educate the teachers about the outcome based education and its implementation.

The COs represent the expected knowledge and skills a student acquires at the end of a course. COs have been thoughtfully defined for all courses across the various programs being offered. Bloom's Taxonomy is also kept into consideration while defining the COs. Internal Assessment test questions are prepared based on COs.

The students are motivated to upgrade their knowledge by undergoing MOOCs courses through NPTEL, SWAYAM, EDX, COURSERA. Mini projects are incorporated from semester I and students are advised to do multidisciplinary, industrial projects. Furthermore the Internship is compulsory for all the students in VIII Sem.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.pce.ac.in/academics/bachelors/computer-engineering/curriculum/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

17

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

426

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

451

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

21

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Professional Ethics, Human Values: Our students learn courses as Professional Communication Skills and Human values & Social Ethics, Ethical Hacking and Cyber laws. Programs such as Community Service Day, Uber Rang, and Teachers Day are organized in PCE. PCE has "TAPAS" a wellness and meditation club which has organized the Meditation Challenge to inculcate human values and professional ethics. NSS PCE has arranged various webinars and activities to inculcate human values amongst students and faculty members. Students and Faculty reports/papers/thesis are checked for plagiarism using TURNITIN software to maintain Professional Ethics.

Women Rights and Gender Equality: PCE has established the Society of Women Engineers (SWE-PCE) chapter to cater specifically to girl students. Various workshops and mentoring sessions are arranged by SWE-PCE. It organizes STEM Outreach activities for underprivileged middle and high school girls. Women's day is also celebrated each year at College Level. In project group formation it is suggested to have at least one girl student in the group. This practice actually helps the

girls to overcome inhibitions and function effectively and prepares them for their future.

Environment and Sustainability: Nature club, NSS organizes activities to inculcate awareness towards environment as Environment awareness rally. Survey to Chikhale Village was done under Unnat Bharat Abhiyan .which address diverse social and environmental issues.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

11

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

387

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1326

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.pce.ac.in/wp-content/uploads/2023/11/img5273.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.pce.ac.in/wp-content/uploads/2023/11/img5273.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

2877

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

179

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

PCE is committed to ensuring a tailored and supportive learning environment through well-defined policies and procedures. In the teaching-learning process, course-in-charge and class counselors employ a keen observation of students' performance in various activities and assessments throughout the semester to identify both slow and advanced learners. To address the needs of slow learners, remedial classes, special counseling, and extra sessions are organized. The Mentor-Mentee scheme facilitates ongoing monitoring of students' progress and challenges. Regular Parent-Teacher meetings provide a platform for updating parents on their ward's performance. For slow learners, initiatives like access to e-books, subject-specific video lectures, question banks, and faculty-prepared notes are in place. High-achieving students are encouraged to aim for top university ranks and pursue exams like GATE, GRE, TOEFL, IELTS, and CAT, with teachers conducting additional sessions for GATE preparation. Value-added courses and diverse opportunities at district, state, and national events contribute to holistic student development. Students inclined towards research are motivated to showcase their work in conferences and competitions like Avishkar. PCE is dedicated to fostering a dynamic educational experience that caters to the diverse needs and aspirations of its students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/students/student-activities/student-awards-and-achievements/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2023	2877	144

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

PCE is dedicated to elevating the student learning experience, placing it at the core of the institute's vision and mission. The institution is committed to providing hands-on and experiential learning, manifested through various activities: Mini projects included in the curriculum is a cornerstone, where students engage in defined projects aligned with their theoretical subjects each semester, fostering practical implementation in collaborative group settings. The institute's infrastructure includes a fully-equipped Maker Studio, featuring laser cutting machines, 3D printing machines, CNC machines, and tinkering workstations, empowering students with state-of-the-art tools. A Component Library facilitates student access to a range of engineering tools and components, such as Arduino boards, microcontrollers, motors, sensors, etc., for project utilization. Virtual labs and the promotion of online courses on platforms like NPTEL, SWAYAM, EDX, and COURSERA contribute to a dynamic learning environment. The institute encourages diverse learning avenues, including case studies, online internships, webinars, and industry expert talks across all departments. Student chapters and affiliations with professional organizations like CSI, IEEE, MESA, ETSA, AESA, and ISHRAE drive student-led activities such as webinars, expert talks, and competitions, enhancing their exposure to the

professional world. This approach fosters the development of coordination, leadership, team-building, management skills, and technical prowess. Furthermore, the institution actively engages students in hackathons and startup challenges, promoting problem-solving abilities and innovative thinking.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://www.pce.ac.in/students/student-activities/student-associations/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

PCE places a paramount focus on nurturing innovation and creativity in both its student body and faculty. Various initiatives are in place to harness ICT-enabled tools for an enriching teaching-learning experience: The institution boasts a dedicated "E-Learning Studio," equipped with an in-house developed Light Board and recording facility, blending traditional chalkboard elements with modern projection screens. Faculty-produced videos from this studio, featuring interactive, audio-visual tools, digital resources, animations, and simulations, are shared with students via platforms like YouTube. Online teaching is seamlessly facilitated through Zoom and Google Meet, allowing faculty members to conduct lectures, practical sessions, discussions, and examinations. Google Classroom is actively employed for assignment distribution, quizzes, and online submission processes. Incorporating digital resources, teachers utilize E-books, E-Journals, and Digital Databases to enhance the teaching-learning process. Faculty members continuously enrich their expertise by enrolling in and earning certifications from NPTEL, Coursera, and Edx courses, deepening their knowledge in specific research areas. Furthermore, virtual laboratories are implemented to ensure a continuous learning experience and introduce students to novel setups and experiments. PCE's comprehensive approach to integrating innovative ICT tools fosters an environment where both faculty and students can thrive in the realms of technology and education.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.pce.ac.in/academics/e-learning/
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

127

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic Calendar is prepared prior to the beginning of every semester for the smooth functioning through proper execution of academic and non academic activities of the semester. All the academic and non-academic activities are planned in advance to be executed throughout the semester. After the commencement of the lectures midterm tests are conducted to evaluate the performance of the students. Parents Teacher meeting is also planned in the mid of semester to have interaction of parents with the subject faculties and to make them aware of their child performance. Academic Management system in the institute is used by faculties to upload all the academic data like teaching plan, lecture attendance, IA marks etc. which is regularly monitored by HODs and Principal. There are two Internal Assessments conducted in a semester. After which the viva practical examinations are conducted. A time of a week or 10 days is given as a preparatory leave before the final exams are conducted. After the final exams are over 4-5 weeks' time is given to do the industrial or in-house internships before the other semester begins.

Exams, supplementary exams are planned well ahead and included

in the term calendar to ensure smooth functioning of the academic activities and also to convenience students and teachers. Slots for internships for students and vacation for the faculty members are also provided in the term calendar, which makes it convenient to plan the schedule.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

144

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

29

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1319

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

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

15

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

451

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Each student's performance in every course undergoes a comprehensive assessment, incorporating (i) Internal/Continuous assessment during the semester and (ii) End Semester Examination. The Continuous Internal Assessment (CIA) comprises examinations held twice per semester, alongside periodic assignments, tests, and quizzes. The process is seamlessly managed by an in-house developed software for the Examination Management System (EMS), ensuring automation and efficiency.

This software handles student registration, hall ticket generation, result gazette creation, result declaration, and issuance of final grade cards. To uphold assessment uniformity, question paper setters are selected from a regularly updated panel of examiners, adhering to University eligibility norms. Evaluation schemes and solutions are provided to examiners before assessment to maintain consistency. After assessment, answer papers undergo moderation, and the Examination Cell compiles marks/grades to prepare the result gazette, accessible online through the student portal. A transparent reevaluation process is facilitated through an open day, allowing students to review their answer papers. Grievances can be addressed through a prescribed application form. Supplementary Examinations are conducted twice annually for failing/absent students, following both Odd and Even semester regular examinations. Those failing in the supplementary exam can appear for the Backlog examination held at the end of each academic year, ensuring opportunities for academic progression.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://pcestudentportal.mes.ac.in/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Course Outcomes (COs) embody the expected knowledge and skills acquired upon course completion, meticulously tailored for diverse programs with consideration to Bloom's Taxonomy. Collaboratively defined by course teachers and senior faculty aligned with the University syllabus, each course typically features 4 to 6 COs. These COs are introduced during initial lectures, subject to approval by department-level committees for any necessary revisions. COs and their achievements are detailed in Course Assessment Reports, influencing strategically designed Internal Assessment test questions targeting specific outcomes. Since 2015, the National Board of Accreditation (NBA) has instituted 12 Program Outcomes (POs), ensuring uniformity across the Undergraduate Engineering Program. Workshops educate teachers on outcome-based education. Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) are crafted collaboratively for all

undergraduate programs. Displayed prominently, these outcomes undergo regular calculation and reporting to the Internal Quality Assurance Cell (IQAC) for annual review, fostering a commitment to continuous improvement.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://www.pce.ac.in/academics/bachelors/computer-engineering/program-overview/

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The systematic attainment process for Program Outcomes (POs) and Course Outcomes (COs) involves direct evaluations throughout the semester, utilizing lab work, assignments, tests, seminars, mini-projects, and study camps. Indirect CO attainments are gauged through the Course Exit survey, with a 70% weightage for direct attainment and 30% for indirect, resulting in the overall CO attainment. Linking COs and POs is achieved through mapping, with direct PO attainments measured on a 3-point scale, complemented by indirect feedback from alumni, graduates, and employers. The weighted average of direct and indirect attainments determines the overall PO attainment. Program Specific Outcome (PSO) attainment from COs follows a similar 3-point scale mapping process as PO attainment. Course Assessment Reports (CARs), essential for all courses, gain approval from department-level committees and form the basis for PO and PSO attainments. Head of Department meetings regularly review CARs, initiating actions to enhance attainment in courses reporting lower levels. Interventions like bridge courses and workshops are introduced for subjects requiring improvement, ensuring a dynamic approach for continuous enhancement in program outcomes.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/academics/bachelors/computer-engineering/program-overview/

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

638

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.pce.ac.in/igac/annual-reports/

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

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

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Institute has recognized Research Centers in the departments with necessary software and computing facilities for carrying out research activities for promoting quality research publications and developing collaborations to enhance industry - institute relationships through MOUs for widening the scope of innovation and research. The institute encourages the

faculty by providing incentives for peer reviewed publications, writing books and filing patents. Institute encourages faculty members to enhance their academic qualifications or professional competence by participation in FDPs/ STTPs/workshops/conferences by providing leave and/ or financial support. Faculty and students are encouraged and provided financial support for attending conferences, participation in project competitions. In addition, the institute gives awards to students under categories such as Best Project Awards, Outstanding Student Award, Best Student of the Department, Class Topper Award etc. The well-defined progressive policies resulted in better outcomes and helped for excellence in teaching, receiving grants and consultancy work for research projects that showed a significant rise in research, consultancy, infrastructure and placement. Faculty members have enhanced academic qualifications with quality research publications. Students have won several awards and recognitions at various competitions including AICTE SIH, DEEP BLUE, AVISHKAR, and IIC NIC. For research facilities view <https://www.pce.ac.in/research/research-facilities/>

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.pce.ac.in/about/mandatory-disclosure/pce-handbook/
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

19.29742

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

4

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/research/research-and-consultancy-grants/research-grants/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

24

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.pce.ac.in/research/research-and-consultancy-grants/research-grants/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Pillai Centre of Innovation and Entrepreneurship (PCIE) is set

up with advanced equipment that are funded by DST, AICTE ,industries to support UG, PG and PhD students to conduct research. It is a forum to assist in developing entrepreneurs and support innovative ideas from ideation to fruition. Financial support is extended to the students for exhibiting their models at the Idea Generation Contests, Competitions held by other organizations. The Local Entrepreneurs are invited to interact with the students and inspire them through awareness meets, workshops, seminars and guest lectures on Entrepreneurship. Institute has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish function ecosystem for scouting Ideas and pre-incubation of ideas and develop better cognitive ability for technology students. Incubation cell helped more than 20 start-up companies. Students are provided facilities to build prototypes useful for promotion of Agriculture and Rural Development. Students are awarded cash prizes for best models. As an outcome of funded projects, Robotics and Automation Station is set up to provide research infrastructure. Facilities designed to facilitate the test and development of systems and solutions for Industry 4.0. The 5G Communication Station is set up for conducting research in 5G communications technology."

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/iic/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

30

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	A. All of the above
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File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

0

File Description	Documents
URL to the research page on HEI website	https://www.pce.ac.in/research/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

38

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

19

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/research/publications/

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

196

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

50

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy	
3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)	
2.5106	
File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded
3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year	
0	
File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded
3.6 - Extension Activities	
3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year	
Institute conducts various extension activities and outreach programs in collaboration with Industry, Community, through student chapters, TAPAS-PCE and NSS in the neighbourhood community to sensitize students to social issues and holistic	

development. The NSS unit helps to solve the social difficulties of neighbourhood community and works towards the betterment of the society. These social outreach programmes brought a great impact on the holistic development of the students as they came across different categories of the people and their living standards. NSS-PCE unit had conducted different activities such as Organ Donation awareness project, Health checkup programme in collaboration with MGM Institute to celebrate World Physiotherapy Day as well as Body and Organ Donation Awareness Programme. A survey to Chikhale village under UBA was conducted with the help of around 30 volunteers. A meditation camp was organized for all First year students in collaboration with Team TAPAS-PCE. NSS-PCE unit has also conducted a one week residential camp at Shivansai Village, Post Ambe. TAPAS-PCE is a wellness and meditation club emphasizes the well-being of students' mental health by organizing various informative sessions on topics including meditation, mental health, inner peace, etc. TAPAS-PCE has organized various activities such as Trip to Kanha Shantivanam, Dhyaratri, Udyanotsav 2022 etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/extension/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

2

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

19	
File Description	Documents
Reports of the events organized	View File
Any additional information	View File
3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year	
1795	
File Description	Documents
Reports of the events	View File
Any additional information	View File
3.7 - Collaboration	
3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work	
491	
File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File
3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)	
12	
File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

PCE is committed to provide high quality education through classroom teaching, practical training, and by providing excellent infrastructure and experience. The Institute fulfils all the norms specified by the statutory bodies in terms of land requirement, instructional, administrative and amenities area. The college houses spacious and sufficient classrooms, seminar halls, state of the art auditorium and conclaves. There is an abundance of infrastructural resources such as Lecture Halls, Tutorial room, Drawing Halls, Seminar Halls, Laboratory, Library, Office, Exam Cell, Workshops, Conference Halls, Auditorium, Research and Incubation center, E-Learning Studio. All classrooms are equipped with ICT facilities which render content delivery for lectures at an elevated platform for disseminating data, videos, demonstrations and simulations. Each department has one smart class room. PCE has over 62 state of the art teaching laboratories fully equipped for enhanced teaching and learning experience for students. The laboratories are well equipped with latest equipment like 3D printer, Laser cutting machine, CNC machines, and softwares/simulation tools like Rational Rose, Oracle, NS2, MATLAB, LABView, ANSYS, AUTOCAD, etc., to give hands on experience to satisfy industry needs. PCE has a fully-fledged language lab with the latest language tools that students can use to improve their English speaking and writing skills and learn new languages.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/academic-infrastructure/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

PCE has modern and futuristic facilities enabling student community to qualify and to participate in various national and international level competitions. PCE has a full-time sports director to train, equip and guide students in various sports.

PCE has indoor games facilities like air-conditioned sound proof six lanes Olympic level size shooting range with internationally approved rifles. It also has designated areas for games like Chess, Carrom and Table Tennis. Multipurpose Polyurethane outdoor sports complex with area 968 sq mtr to play various sports like Volleyball, Basketball, Ball badminton, Handball and Futsal. In addition, a multipurpose ground measuring 211m x 94m designated with different courts for Football, Volleyball, Kho-Kho, Cricket, Kabaddi, Ball Badminton, Handball and running track fulfil most of the outdoor sports requirements. PCE has won many sports awards at University, State, National and International level. Regular Yoga sessions are organized for students and faculty members. PCE has gymnasium which is equipped with facilities like treadmills, cross-trainer, recumbent bike, abdominal machine, dumbbells and gravity expansion and many others. PCE encourages students to participate in various co-curricular, extra-curricular, social and cultural activities by providing facilities like Auditorium, mini-auditorium, multiple open area theatres and conclaves. Many cultural events like Alegria, Uber- Rang, Tech-Alegria, Inter-class sports tournaments etc., are organized on campus.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/sports-facilities/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

62

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year

(INR in Lakhs)**571.1064**

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource**4.2.1 - Library is automated using Integrated Library Management System (ILMS)**

The PCE library is automated using KOHA ILMS software. It is installed, configured, maintained and upgraded by the PCE library team on a regular basis. The Main reason for using KOHA ILMS software is that it is Open Source and internationally accepted. KOHA ILMS software is web-based software that can be accessed from anywhere in the world. KOHA is a fully featured, scalable library management system.

KOHA continues to evolve and expand to meet the needs of its user base. KOHA includes modules for acquisitions, circulation, cataloging, serial management, authorities, flexible reporting, label printing, multi-format notices, offline circulation for when Internet access is not available, and much more. KOHA will work for consortia of all sizes, multi-branch, and single-branch libraries.

URL : <http://koha.mes.ac.in/>

URL : <http://opac.mes.ac.in/>

Year**2022-2023****2021-2022****2020-21****2019-2020**

2018-2019

ILMS Name

Koha

Koha

Koha

Koha

Koha

Nature of

automation

Fully automated

Fully automated

Fully automated

Fully automated

Fully automated

Version

21.11.05

21.11.05

17.05

17.05

17.05

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://koha.mes.ac.in

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	A. Any 4 or more of the above
File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File
4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)	
4.75613	
File Description	Documents
Audited statements of accounts	View File
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File
4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)	
4.2.4.1 - Number of teachers and students using the library per day during the year	
241	
File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File
4.3 - IT Infrastructure	
4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities	
IT infrastructure facilities are created taking into consideration the requirements of all the stakeholders. It	

includes:

a) Server: Institute has 7 high configuration servers such as ENTAB XEON, NPTEL XEON, MASTER XEON, DIGITAL LIBRARY XEON , ACCOUNTS XEON, and LMS.

? High Performance Systems: CPU AMD Ryzen 5 5600X 3.7 GHz 6-Core Processor, Motherboard MSI MPG B550 Gaming Plus ATX AM4, GPU GeForce RTX 3060 Gaming X 12G, Memory Corsair Vengeance RGB Pro 32 GB DDR4-3600 CL16 Memory, and NVME SSD Crucial P1 1 TB M.2-2280 NVME SSD.

? Computers are upgraded with i5 Processor, 16GB RAM and SSD (240GB) replacing traditional HDDs.

b) Main Firewall: Cyberoam 2500, Router, Airtel Wi-Fi, CISCO Networking Switches, 1308 Computing Machines (i5 Processor)

c) Other peripherals: Institute has 91 printers, 71 projectors, 7 smart boards, 30 ChromeBook, 30 WEBCAMs.

d) Software: Six legal system software like Windows, Linux etc. and 37 application softwares, Lantive software purchased for fully automated timetable construction & MATLAB purchased for technical computing.

f) Educational Annual ZOOM Licenses 30 Nos.

Internet and Wi-Fi: 250 Mbps bandwidth

Security Arrangements: Cyberoam CR2500iNG - 10.6.5

Response: >=50 MBPS

Following process is adopted for upgradation of IT facilities:

? During non-academic period assessment for replacement / upgradation / addition of the existing infrastructure is carried out based on the suggestions from HoDs, faculty, lab technicians and system administrator after reviewing course requirements, computer - student ratio, budget constraints, working condition of the existing equipment and also student grievances.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructur e-and-facilities/it-facilities/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2877	1269

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. 750 Mbps
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File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	A. All four of the above
--	---------------------------------

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/academics/e-learning/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure**4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)**

332.3911

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The college adopts best practices for scalable and sustainable implementation of all IT services. It provides computing and networking services such as desktops, Wi-Fi based internet to all departments, library and office. Classrooms are ICT enabled and equipped with LCDs, whiteboards, WiFi/Broadband. Appropriate standards are followed for selection, purchase, setup and maintenance of all computing and networking equipment, the choice of protocols for stored and transmitted data security. In general, time tables, accession registers, schedules, dead stock registers, issue registers are maintained. CCTVs are installed in the campus, common area, computer laboratories 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.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/infrastructure-and-facilities/resource-management-and-infrastructure-policy/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1947

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

95

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://www.pce.ac.in/students/get-career-ready/value-added-certificate-programs/
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

240

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression	
5.2.1 - Number of outgoing students who got placement during the year	
240	
File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
5.2.2 - Number of outgoing students progressing to higher education	
42	
File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File
5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year	
5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year	
94	
File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File
5.3 - Student Participation and Activities	
5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year	
8	

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

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.

Events organized by Student Council 2022-23 are:

Aavishkar Workshop

Teachers' Day

Garba Night

Community Service Day

FE Sports Day

Alegria 2023:

The most celebrated college festival of Navi Mumbai just considering the reach it has over the years is remarkable.

We conducted various events like, Women's Day, Freshers and Student Council Felicitation, Shivaji Maharaj Jayanti, Traditional Day, Cultural Days, Farewell, Youth Festival

Apart from the student council, PCE has various student chapters like CSI, IEEE, ISHRAE, ETSA, SWE PCE, SAE PCE, AESA-MESA, Hyperion Racing, Spark Racing team, Vanguard Racing team, TAPAS, TPC, etc. All the student bodies are involved in organizing activities under the guidance of the faculty coordinators.

Students represents the following academic and administrative

bodies 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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/students/student-council/#1700740942917-7b5181bb-9338

5.3.3 - Number of sports and cultural events / competitions organised by the institution

16

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Alumni Association of PCE was formed in September 2012, named as "Pillai Institute of Information Technology Media Studies and Research Alumni Association". 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.

? Alumni Workshops and Seminars - Alumni regularly conduct workshops and seminars for the students of various departments. The college provides funding for such events either through student groups or through student activities funds.

? MES Alumni Registration - PCE, through MES, provides a uniform platform for all its alumni to register on alumni.mes.ac.in. 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.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/alumni/alumni-contribution-engagement/

5.4.2 - Alumni's financial contribution during the year

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Pillai College of Engineering is committed to providing intellectual, social, cultural, economic & technological benefits to communities through programs of education, research, training, and extension. The commitment is supported

by the management of the institute, which provides planning, strategy, reporting, and improvement processes in the academic/administrative activities of the institute. PCE has a clearly defined vision and mission that is in line with the institute's vision of making responsible technical professionals with the help of trained and dedicated teachers. PCE has articulated broad institutional goals that will not only develop professional engineers who have respect for the environment and nation but also contribute to technological development both from an Indian and global perspective. The institute takes a 360 view of the development of itself and all its stakeholders. There is a feedback system that seeks feedback from students, employers, alumni, and parents to develop and evaluate teaching and learning pedagogy, curriculum design, social outreach initiatives, and industry-oriented programs. Almost every faculty is a member of various committees to ensure value addition and overall development of students. The faculty appraisal system, feedback mechanism, transparency in decision-making, policy framing, knowledge sharing, and action implementations help to enhance the governance of the institute.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/academics/stakeholders-feedback/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

PCE promotes and practices decentralization in all academic and administrative activities, it has various academic and administrative committees to monitor, plan, and execute the smooth functioning of the Institute. PCE encourages a participative and proactive approach of its staff for the development of the institute. Ideas collected from all the stakeholders are valued and implemented for better and effective functioning of the institute. PCE always encourages faculty members to update themselves with new software technologies.

One such software that PCE procured is MATLAB Campus-wide suite.

Case Study on Purchasing MATLAB Campus-wide Suite:

To keep our students and faculties abreast with new technological developments it was decided to procure a MATLAB Campus-wide license for the PCE campus. The proposal and quotation were submitted to the HOD of the Automobile Engineering Department which was forwarded to the Principal for final approval. During the HOD's meeting, the proposal was put forward and it was also decided to include MATLAB in the curriculum right from the first year of engineering. The management and Principal gave the final approval for the purchase of software and PCE is now MATLAB MATLAB-enabled campus. This highlights the effectiveness of leadership towards the overall development of stakeholders.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/about/institute-organogram/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Pillai College of Engineering was established in 1999 and since 2004 has developed a perspective plan every five years starting from the year 2004, then in 2009, 2014 and the latest one in 2019. Each plan is developed by the Principal, representatives of the Board of Governors, the heads of the various departments, and a member of the non-teaching staff. The plan lays out the goals of the institute for the upcoming five years, by thoroughly analyzing the previous plans and listing out their successes as well as analyzing the challenges still faced by the institute. It also lists out the strategies to achieve each and every goal of the institute. In 2014, it was also decided to sign strategic MOUs with various industries that involve research & knowledge sharing. PCE encourages and supports faculty members to pursue higher education, as a result, many faculty members started pursuing doctoral

programs. Internships and Industry projects for students are encouraged and many industry-oriented Certificate/Value Added Courses are offered to students. Thanks to its strong research focus, PCE is now an approved Ph.D. center of the University of Mumbai in the fields of Mechanical Engineering, Computer Engineering, Information Technology & Electronics Engineering.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.pce.ac.in/academics/ph-d/electronics-engineering/program-overview/
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Institute is managed by the Board of Governance, constituted as per the guidelines stipulated by AICTE. The members of the BoG discuss and decide policies and action plans for fulfillment of the stated Mission.

PCE has decentralized its operations and has delegated authority at various levels to ensure good governance. As per Organogram, the Principal takes guidance, directions, and approvals from the Board of Governance for various academic and administrative activities of the Institute. The Principal is the academic & administrative head who monitors the overall functioning and has powers for academic, administrative, financial, and institute growth.

The Institute has IQAC and the College Development Committee (CDC) working under the Principal to strengthen the academic quality. These committees advise the principal and the authorities above him on various quality initiatives that need to be undertaken by the institute. The principal interacts directly with HoDs, Dean R & D, Examination Cell, Placement Cell, Registrar, Librarian, and Student Council for the conduction of various activities in the department/ Institute. An example of this is the Institute level Committee formation for the revision of a curriculum based on NEP 2020.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.pce.ac.in/about/institute-organogram/
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/faculty/faculty-handbook/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Institute understands that faculty is the backbone of the educational system. Therefore the skill sets and the core competency of faculty are required to be upgraded on a regular basis. The Institute encourages faculty and staff members to acquire the latest skills by supporting them to attend various programs and has a sponsorship fee reimbursement scheme for STTP/Workshop/Trainings/Professional Membership. The institute also reimburses travel costs for faculty for traveling to conferences outside of Mumbai.

The Institute facilitates various soft-skills training programs for teaching and non-teaching staff members. The Institute recognizes the need for continuous qualification upgradation. The institute motivates and supports faculty members

financially to acquire higher degrees from renowned and accredited Universities.

Welfare Schemes for Teaching Staff are Credit Cooperative Society, Maternity Leave, EPF, Gratuity, Travel Grants for attending International Conferences in India and Abroad, and Permission for Qualification Upgradation.

Welfare Schemes for Non-Teaching Staff are Credit Cooperative Society, Maternity Leave PF, Gratuity, and Permission for Qualification upgradation.

Welfare Schemes for Students are Scholarships (Full and Partial) Government and Institute level, Support for Students' co-curricular Activities, Finance for Racing Car teams (Hyperion, SPARK, Vanguard), and also for students' projects, and Student Project Funding.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/faculty/faculty-development-schemes/#1562997251488-83705190-9f83

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

24

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

25

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

49

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal Audit: The Mahatma Education Society, parent body of the institution appoints internal & 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 take place in two stages namely, Internal Audit & External Audit. The Internal audit is carried out by CA Susanna Cherian. The Internal auditor is in regular contact with the accounts department for guidance and regular observation of the operations of the Accounts department. 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 &

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 a timely meeting of financial commitments to all debtors & all payment of salaries on time to its employees. PCE has always been a financially prudent institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/about/mandatory-disclosure/university-affiliation/

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

867096

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

PCE is a linguistic minority institution. Therefore, the funding required for running the college is mostly self-generated. The institute's budget is the primary instrument of fiscal control and, accordingly, contains all projected revenues and expenditures of the administrative and academic programs. In general, salaries of teaching, non-teaching, and administrative staff are fixed as per their qualifications and experience and are notified separately by the management of the institute. Also, examinations are conducted as per the examination policy of the university, and exam fees are charged separately from the students. The fees approved by the Shikshan Shulk Samiti (FRA) of the Directorate of Technical Education, Government of Maharashtra, that the students pay is the main source of funds for the operational purpose.

Keeping in mind the academic calendar of the institute we allow various agencies to utilize our well-equipped laboratories, classrooms, and all other infrastructures for conducting various examinations, conferences, and seminars which generates additional funds. The institute has a Policy for budget and it is mentioned in the Faculty and Staff Handbook.

The Chartered Accountant does the audit and makes sure that the mobilization of the resources is being done properly.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/about/mandatory-disclosure/pce-handbook/

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The PCE IQAC highlights the pivotal role of curriculum design and content delivery in shaping the quality of teaching and learning. It stresses the need for ongoing curriculum review and updating, alongside advocating for the integration of technology tools such as virtual labs and online platforms to enhance engagement. To foster continuous improvement, the IQAC recommends external audits to identify areas for enhancement and implement corrective actions.

1. Curriculum Design in accordance with NEP 2020 framework:

The PCE IQAC has guided departments on integrating the NEP 2020 framework into the undergraduate curriculum, set to commence in the academic year 2023-24. This updated curriculum incorporates department-specific elective courses aligned with AICTE's emerging areas, along with comprehensive multidisciplinary offerings at the institute level. In alignment with NEP implementation, the institute has registered on the National Academic Bank of Credits (ABC) portal, with 1750 PCE students

enrolled. Furthermore, the institute has introduced blended learning for an open elective course on digital business management and digital marketing through the NPTEL Swayam portal.

1. Incorporating a semester-long credit-based internship program:

A semester-long credit-based internship program is now part of the final year of the B.Tech program, providing students with valuable hands-on experience across various disciplines to better prepare them for post-graduation challenges. To ensure the quality of this initiative, the PCE IQAC has developed a detailed internship policy document, distributed to all stakeholders. It covers internship categories, monitoring and evaluation guidelines for faculty and industry mentors, and criteria for successful completion.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/wp-content/uploads/2023/08/B.TECH-Computer-Engg-syllabus-w.e.f-FY-2023-24-August-2023.pdf

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

In 2022-23, PCE's IQAC conducted both internal and external audits, comprehensively reviewing teaching, research, co-curricular activities, infrastructure, and administration to maintain quality standards in higher education institutions.

PCE has meticulously crafted a revamped curriculum aligned with NEP 2020, following extensive collaborative sessions w.e.f A.Y. 2023-24. It features department-specific electives, interdisciplinary options, and mandatory courses in entrepreneurship, innovation, and financial literacy from the second year. Additionally, a semester-long credit based internship is now part of the B.Tech final year.

Teacher training and professional development are crucial for

enriching educational experiences at PCE. The institution offers financial support to teachers attending seminars, workshops, and conferences. Collaborations with esteemed institutions like IIT and DST facilitate networking opportunities and enable the showcasing of teachers' research work. Notable events include the "Advances in Polymer Processing in Sustainable Development" conference and the DST Inspire Fellowship Review Meeting. Plenary talks at CTFC focus on cutting-edge topics like cybersecurity, 5G, and hydrogen energy, underscoring PCE's commitment to staying abreast of emerging trends.

Incremental improvements made during A.Y 22-23 :

1. The institute signed 11 MOUs with industries, fostering research collaboration and student internships.
2. PhD intake increased in Mechanical Engineering, Computer Engineering, and Information Technology.
3. Six faculty members at PCE completed their Ph.D. in 2022-23.
4. Faculty and students collectively filed/received 10+ patents/copyrights, and published 50 research papers in esteemed journals.
5. Over 50 students were admitted to foreign universities for higher studies.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/wp-content/uploads/2023/08/B.TECH-Computer-Engg-syllabus-w.e.f-FY-2023-24-August-2023.pdf

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other

A. Any 4 or all of the above

institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.pce.ac.in/igac/annual-reports/#1701255715537-5c908665-64d8
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

PCE's have the leading priorities like gender equality and women's empowerment. Within the institute premises we constantly strive to promote gender equity and bring about positive attitude change. We also have a Mentor Mentee Program in our institute. According to that program every student at the institute has a mentor assigned to them which guides the students to excel in both academic and non-academic matters. Institute has employed a full-time counselor who is accessible to help students with problems relating to their personal and social lives.

STEM Outreach Activities on the occasion of Women's Day and woman's day celebration is done every year. About half of the institute's employees are women. Girls get access to a separate common room at the institute. On May 13, 2021, SWE PCE Affiliate was put into place. The objectives, guiding principles, and advantages of the Society of Women Engineers were briefly explained to the participants. Security personnel are also deployed and CCTV is being monitored closely to ensure the safety of the female employees in the campus. The Internal Complaints Committee was established to address the concerns voiced by female students and maintain a safe environment for

them.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/students/student-activities/student-associations/swe/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Removing, discarding, recycling, or destroying unwanted materials helps in keeping the environment clean. Keeping this in perspective, Pillai College of Engineering uses designated trash cans to gather various types of waste at the source. Organic waste is collected in green trash cans, and non-biodegradable rubbish is collected in blue trash cans. The garbage is collected by the municipal workers, and all of the organic waste from the canteen and gardening trash is recycled to create high-quality manure that is utilized for indoor gardening. This is carried out at a composting facility on the campus.

The institute recycles non-potable water for flushing toilets and watering plants, among other uses, and collects rainwater. All of the outdated, non-operational electronic products are donated for recycling, and new electronics that abide by environmental protection laws and power consumption standards are regularly acquired.

Reusing electronic parts and performing routine maintenance help to reduce electronic waste. A Biocrux plastic bottle recycling machine has been erected on the Pillai College of Engineering's campus in association with Reliance India Ltd. All of the plastic bottles are placed in a machine that shreds them into tiny pieces, which are then recycled to make other goods like bags and t-shirts.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

<p>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities 	<p>B. Any 3 of the above</p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

<p>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information:</p>	<p>A. Any 4 or all of the above</p>
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Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Pillai College of Engineering (PCE) is a Malayalam Linguistic Minority Institution with the main objective of building students with high technical and moral values.

Every year, the PCE celebrates various events and festivals like Helping Flood Affected Areas, K-12 programs, visiting orphanages, awareness programs, Onam, Garba, Marathi Rashtra Bhasha Diwas, Shivaji Jayanti, etc. These environments bring the institution's teaching and non-teaching staff from diverse cultural backgrounds together to work in harmony toward societal and environmental causes.

They also keep the spirit of integrity high in the PCE campus by encouraging students to participate in all the activities with great enthusiasm and joy which resulted in students learning the art of living by supporting social activities, engaging in cultural activities, and realizing the importance of treating everyone equally regardless of race, religion and to become responsible citizens. The academic year 2022-23 has become a second normal routine year after the pandemic, so all the events and festivals are conducted with limited faculty members and students following the government norms and guidelines.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:	
<p>To teach students about human values, the institute offers various courses like webinars, seminars, motivational speeches, and workshops. The webinar is organized by ETSA PCE. The speakers for the event shared their views and motivated us all to choose the career paths we chose. The speakers made the audience speak up, come out of their fear, step out of the boundaries, and make themselves grow towards the "fearless me".</p> <p>PCE conducted a seminar "Search Engine & SEO" on 10th March 2023 . It was an informative seminar for every participant. They explained their work experiences, recent techniques, job opportunities, and other future growth. Also, conducted an event for female faculties on Women's day to encourage them in their works and their needs. ETSA PCE organized a motivational speech session on "Think Like a Proton," . This session helped us mold our thinking process in a more "positive way". Mrs. Gayatri Dantal who is a motivational coach commenced the workshop by giving a brief knowledge of happiness. This session helps our students face problems and learn how to come out of them. Various meditational events were organized by PCE. The main attraction was a trivia competition with the theme "Entrepreneurship and Start-up Culture."</p>	
File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File
7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization	A. All of the above

programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

After a gap of two years, PCE was able to celebrate all the national and international commemorative days, events and festivals in complete offline mode. The celebrations included Independence Day and Republic Day, commemorative days like Teacher's Day, Engineer's Day and International Women's Day and festivals like Dussehra. Everyone was glad to be part of the in-person celebrations this year. India is a multicultural nation with a strong spirit of festivity and celebration. Through these celebrations we were reminded of our great history and the potential that we carry as a nation.

The cultural events organized as part of these celebrations gave everyone a break from the routine academic activities and helped getting rejuvenated for the academic rigor. Several of our fellow staff members and students showcased their extra curricular skills. A lot of effort was put in by several people to make these celebrations a success. Such functions help to build the culture of the institute and bring the staff members and students closer.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Practice`1 : Broadening the Educational Horizon based on Institute Objectives

objective: Enhance education with diverse learning experiences and critical thinking to foster holistic student development.

Context: Improve education by providing diverse opportunities and implementing a well-designed curriculum for well-rounded graduates.

Practice: The curriculum integrates industry-specific electives and multidisciplinary offerings, aligning with institute objectives.

Evidence of Success : The institute received the Times ASCENT Skill Development Leadership Award and excelled in SIH and UoM Avishkar Research Convention, enhancing higher study prospects.

Problemsand Resources Required: Funding for programs and infrastructure upgrades pose challenges. Required resources include financial support, training initiatives, and facility expansion to effectively broaden the educational horizon.

Practice 2: Fostering Awareness for Holistic Well Being

Objective: Cultivate awareness for holistic well-being by promoting mental, physical, and emotional health for individuals and communities through educational initiatives.

Context: Strive to enhance well-being through educational efforts emphasizing mental, physical, and emotional health,

fostering awareness among individuals and communities for a holistic approach to overall well-being.

Practice: The institute conducted diverse programs, including awareness on organ donation, cancer, and personal hygiene, along with an osteoarthritis screening camp. Additionally, yoga, meditation sessions, elective courses on cooking, nutrition, and visual art were provided, sensitizing students and faculty to mental and physical health.

Evidence of Success: Over 1000 students and faculty benefited from these diverse programs backed by the Institute's NSS unit and Tapas Chapter.

Problems and Resources Required : Challenges include resource constraints, limited participation, and the need for sustained engagement in the ongoing academic activities

File Description	Documents
Best practices in the Institutional website	https://www.pce.ac.in/igac/institutional-values-and-best-practices/
Any other relevant information	https://www.pce.ac.in/students/student-activities/student-awards-and-achievements/

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The institute diligently endeavors to cultivate an ecosystem that empowers its graduates to become highly employable, accomplished researchers, or successful entrepreneurs.

For enhancing employability, a diverse array of elective courses, audit options, and skill enhancement programs are provided to impart specialized knowledge. The inclusion of a semester-long internship program in the curriculum ensures that students are industry-ready, facilitating better placement opportunities.

In promoting research, a dedicated Electronics Engineering research center was established, and intake capacity was

expanded for existing centers in Mechanical, Computer, and Information Technology domains. A separate budget allocation supports research initiatives at the undergraduate, postgraduate, and Ph.D. levels. Project competitions and conferences are organized, motivating students to produce high-quality research projects and publish papers. Internal hackathons further augment problem-solving skills.

To nurture entrepreneurship, the institute established LaunchpadX, a Section 8 Company serving as an incubator for aspiring entrepreneurs. Ongoing support for student and faculty startups is complemented by activities organized by the Institute Innovation Council, such as business plan competitions, motivational talks, seminars, and workshops.

These initiatives have significantly contributed to the holistic development of students, evidenced by improved placement records, increased student publications, heightened participation in hackathons, and a rise in student patents and startups.

File Description	Documents
Appropriate link in the institutional website	https://www.pce.ac.in/igac/institutional-distinctiveness/
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

The institute has embarked on a comprehensive initiative to align its curriculum with the National Education Policy (NEP) of 2020. As a key component of this endeavor, a semester-long, credit-based internship has been integrated into the final year of the B.Tech program, beginning in the Academic Year 2023-24.

Furthermore, groundwork is being laid for the establishment of an Undergraduate Research Program aimed at fostering academic exploration and providing students with paid internship opportunities within the institute. This initiative aims to cultivate a culture of research and innovation within the academic community.

To facilitate smoother transitions for students seeking to transfer to other institutions or pursue further education in different locations, PCE plans to implement a credit transfer

policy starting from the academic year 2023-24.

Additionally, the institute intends to incorporate Open and Distance Learning (ODL) as well as Hybrid modes of learning for select undergraduate courses. This approach accommodates diverse learning styles and preferences by allowing students to engage with course materials at their own pace and convenience.

In accordance with the requirements of NEP 2020, PCE will develop multilingual course content for certain undergraduate courses, ensuring accessibility and inclusivity in education.

Beyond academic reforms, the institute is dedicated to instilling environmental awareness and promoting health consciousness among its student body. Initiatives in this regard will be seamlessly integrated into the overall learning experience, fostering a sense of responsibility towards both the environment and individual well-being.