



YEARLY STATUS REPORT - 2021-2022

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/				
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 compliance to the decisions taken	Yes				

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)	
UGC conferred autonomous status to Pillai Collège of Engineering.	
Five departments of PCE namely Computer Engineering, Mechanical Engineering, Automobile engineering, Information Technology and Electronics and Telecommunication Engineering got NBA accreditation for 3 years	
Participation In ATAL Ranking of Institutions on innovation Achievements (ARIIA).	
Participation In NIRF ranking	
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
To Implement Academic autonomy	Successful Implementation of Autonomy for First year , second year and third year of engineering by offering additional bridge courses and audit courses .
To widen the horizon of teaching and learning by offering multidisciplinary curriculum.	Autonomous multidisciplinary curriculum is implemented with honors/minor program offered across all the branches.
To sustain the improvement in research and Consultancy grants received from government / Non government organizations .	Total resaerch and consultancy grant of Rs 903480 /- is received from various government / Non government organizations
To motivate faculty members and students to do quality research publications and register for copyrights and patents .	Faculty members and students have published their reserach work in quality journals and conferces such as SCI, UGC CARE, Scopus, springer , IEEE and Elsevier respectively . Also, in all 14 copyrights and patents have been registered by faculty members and students.
To inculcate Innovation and Startup Culture among the student and faculty	Selected as a Mentor Institute (One among 50 selected institute over the nation with Financial Aid) for the Mentor-Mentee Program of IIC, MIC for the academic year 2021-22. PCE incubated Valectus Pvt. Ltd. won the Maharashtra startup week award 2020.
13. Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	

Name of the statutory body	Date of meeting(s)
Board of Governance	15/10/2022

14. Was the institutional data submitted to AISHE ?	Yes
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- Year

Year	Date of Submission
2021-22	22/12/2022

15. Multidisciplinary / interdisciplinary

The Vision of NEP 2020 to provide high quality education to develop human resources in our nation , is well accepted by the Pillai College of Engineering .A discussion among all the stakeholders was initiated on the key principles of NEP such as diversity in curriculum and innovations in teaching and learning, encouraging critical thinking and creativity among students. In order to develop the multifaceted capacities of the students in an integrated manner, the college is preparing to include multidisciplinary subjects as per the NEP 2020. In this context, as PCE , having received autonomous status from academic year 2021-22, sufficient care has been taken in the design of curriculum so as to cater the expectations of NEP 2020. Institute has decided to enhance its curriculum by offering more department level elective courses which will be inline with AICTE's emerging areas and will also offer multidisciplinary institute level courses which will be the same across all departments. The proposed curriculum ,in line with NEP 2020 ,having various skill-oriented courses in every semester from II year onwards. This enables the learners to sharpen the domain specific skills. The curriculum also introduces various courses focussing on human and social values , financial literacy in the form of mandatory courses in either of the semesters starting from second year. In view of the NEP, PCE has initiated a new interdisciplinary program on Honors/Minor degree in addition to the existing curriculum to provide an opportunity to the learners across departments to broaden their learning spectrum. This gives a chance to the interested students to register and undertake courses from other disciplines and make them come out as graduates with multidisciplinary skill set. All programmes are designed in such a way that students get maximum flexibility to choose Honors/minor degree courses offered by other Departments. It can be said that the

college is proactively working towards implementation of the suggestions given in the NEP.

16.Academic bank of credits (ABC):

Under the prescribed curriculum being taught currently at Pillai college of Engineering(PCE) , there are credits assigned to each subject which are not transferable. UGC granted autonomous status to PCE from academic year 2021-22. The autonomous status gave us a freedom to design student centric curriculum which is inline with NEP 2020. In view of implementation of NEP at PCE ,during the academic year 2022-23 institute will register itself on the National Academic Bank of Credits (ABC) portal which will create an opportunity for students to create a academic bank of credit which will be transferable and interdisciplinary and multidisciplinary in nature.Students will also have multiple entry exit options as per their requirements. Regarding the implementation of Academic Bank of Credits, the institution has to wait for the academic council to give a green signal. However currently PCE is encouraging faculty members to design their own curriculum within the approved framework to cater to industry requirements and to make the learner either employable, researcher or entrepreneur.

17.Skill development:

The vision of the Pillai college of Engineering is to promote Value-Based Quality Education to the students and to inculcate positivity among the learners that include the development of humanistic, ethical, Constitutional, and universal human values and life skills.The college usually celebrates National festivals like Independence Day and Republic Day. The institute also celebrates various programmes like Environment Day,Teachers Day ,National science day ,the Death and Birth Anniversary of our National leaders like Shivaji jayanti , Gandhi jayanti , Ambedkar jayanti ..etc which helps in imbibing the values and good qualities among the students. Apart from this a 2 credit course on Human Values and social ethics is being taught in the autonomous curriculum of PCE which is a mandatory course across all the departments of Engineering program . The course focuses on professional ethics ,Relevance of values and ethics in social work, Ethics in technical writing ..etc .The learner will earn 2 credits after successful completion of this course .Along with this value education , TAPAS PCE conducts YOGA and Meditation workshops to inculcate peace and nonviolence nature among all the students as well as faculty members.

Inline with the National Skills Qualifications Framework , The

institution conducts various vocational training courses in the form of value added courses where learning is imparted largely through practical experience . These value-added courses are as per industry requirements to make students industry ready by the time they graduate.The college has continuously offered opportunities for students to develop their skills in tandem with changing needs. Value added Courses like Solidworks , Matlab programming, R programming, Data science , CISCO networking , Machine Learning , Industrial IOT are being offered by various departments at PCE . students are actively enrolling themselves for these courses and getting benefited by these vocational skill development courses .Furthermore, students' skills are further augmented by frequent interactions with alumni and industry experts through expert talks organized by the institute .

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

In PCE we celebrate Marathi Bhasha divas and Hindi Bhasha Divas with various programmes encompassing the richness of Marathi and Hindi language. Although at present PCE is not offering any programme in Hindi or Marathi language but being an autonomous institute, Institute has plans to include it in the coming years and also arrange for classroom delivery in English and Vernacular languages. Institute has included Yoga and Meditation in the curriculum of First Year. PCE is also offering institute level electives in Art and Humanities with courses as Political Science and Visual Arts.

PCE is taking a lot of initiatives to cherish and celebrate the rich cultural heritage of our country India. All festivals are being celebrated with full galore and enthusiasm. To introduce students to the rich cultural heritage of the state of Maharashtra, PCE celebrates Chhatrapati Shivaji maharaj Jayanti. Traditional day organized by the student council of PCE gives students a glimpse of different cultures and traditions of our country.

Institute promotes active participation of students in performing arts.

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

PCE offers 14 programmes across Engineering and Technology. All these programmes offer outcome based education (OBE) with clearly stated Programme Outcomes, Programme Specific Outcomes and course outcomes. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating. Apart from the domain-specific

skills, learning outcomes at all levels ensure social responsibility and ethics, as well as entrepreneurial skills and lifelong learning.

The Course outcomes are aligned with PO and PSO. The Course Outcomes (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. The lectures, seminars, tutorials/workshop/practical and project based learning, project/field work , internship and research work are planned in such a manner that it helps in the attainment of all the stated outcomes. In addition, as a good practice , PCE offers various Value added courses, skill development workshops, and seminars on latest technological trends. 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.

20.Distance education/online education:

The Institute is preparing itself to offer vocational courses through ODL (Open Distance Learning) mode in due course of time. The college is the study center for PostGraduate and Under-Graduate Courses offered by IGNOU which are offered in blended mode.

The institute has put a lot of efforts towards blended learning. During Pandemic, keeping in view the convenience of the student, various technological tools such as Google Classroom, Zoom, Google meet, video lectures were being used as teaching and learning aids by the faculty. Group collaboration and interaction, assignment and revision as well as the online assessments have been conducted. The teachers are well educated in identifying the appropriate learning strategies for the courses they are teaching during the preparation of the course plan itself so that the blended learning can be incorporated. This also ensures that appropriate ICT tools are used to engage different types of learners in every academic activity.

As a good practice and to meet the course outcomes, Institute offers various Value added courses, Seminars, Workshops and internships in hybrid mode.

Extended Profile

1.Programme

1.1

14

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 2698

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 689

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 1971

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

3.1 537

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 148

Number of full-time teachers during the year:

Extended Profile

1. Programme

1.1	14
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2. Student

2.1	2698
Total number of students during the year:	

File Description	Documents
Institutional data in Prescribed format	View File

2.2	689
Number of outgoing / final year students during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3	1971
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	537
Number of courses in all programmes during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	148
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	143
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	1047.78274
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.

The primary objective of our institute is to educate and train a diverse population of students who are academically prepared to benefit from the Institute's infrastructure and faculty experience to become responsible professionals or entrepreneurs

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: Requirements of industry and suggestions by industry experts and alumni, Program Specific Outcomes of professional bodies, Syllabus of various reputed Indian and International Universities, Syllabi of various competitive exams like GATE, IES, Model curriculum prescribed by AICTE for implementation of Outcome Based Education.

Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) have been defined and stated after much deliberations and involvement of stakeholders for every program offered by the Institute.

The Course Outcomes (COs) represent the knowledge and skills a student acquires at the end of course. COs are defined by applying Bloom's Taxonomy for all courses across various programs. The Course Assessment Report prepared for all courses offered lists the course outcomes and their attainments.

Students are motivated to upgrade their knowledge by undergoing Internship, MOOCs courses through NPTEL, SWAYAM, EDX, COURSER, Mini projects, multidisciplinary projects, industrial projects

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.pce.ac.in/wp-content/uploads/2022/06/final-updated-Syllabus_B.-Tech-in-Computer-Engineering-11th-June-2022.pdf

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

6

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

221	
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

417

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

20

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, Gender equality, Human Values, Environment, Sustainability is an integral part of PCE curriculum included in courses like Environmental Studies, Business Communication and Ethics, Intellectual Property Rights, Cyber Security at UG and PG level.

Programs such as Community Service Day, Uber Rang, Teachers Day are organized. TAPAS, a wellness meditation club organizes 21 Days Meditation Challenge, Dhyanotsav 2021 to inculcate human values. NSS PCE arranges webinars to inculcate human values amongst students, faculty members. PCE is participating in Unnat Bharat Abhiyan (UBA) and adopted five villages for their development in collaboration with district administration. Students, Faculty reports/papers/thesis are checked for plagiarism using TURNITIN software.

Women's empowerment, gender equality are one of the primary concerns. PCE has established the Society of Women Engineers chapter to cater specifically to girl students. Workshops, mentoring sessions are arranged by SWE-PCE. Sessions are meticulously planned/designed to gear up trending technologies and technical interaction between student and mentor.

Students participate in University-level competitions like Avishkar, poster presentations addressing diverse social/environmental issues. PCE Nature club/Centre of Excellence in Polymer Science and Engineering and Indian Centre for Plastics in the Environment celebrated World Environment Day by conducting an Intra College Debate Competition.

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

9

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

996

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

3043

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/2022/12/feedback-consolidated-21-22.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/2022/12/feedback-consolidated-21-22.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

566

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)

204

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 has well defined policies and procedures to allow for the identification of different types of learners.

Course-in-charge and class counselors during the teaching learning process identify the slow learners and advanced learners by observing their performance in different activities as well as the results of various assessment processes during the semester. Remedial classes, Special counseling and extra classes are conducted for slow learners.

Mentor Mentee scheme, helps to monitor the progress and difficulties faced by the students. Periodic Parent Teacher meetings are organized to update the parents about the performance of their ward.

Links to e-books, subject related video lectures, question banks as well as notes prepared by faculty are some of the other initiatives for slow learners.

Students having good academic records are encouraged to achieve higher ranks in university exams, and to take exams like GATE, GRE, TOEFL, IELTS, CAT etc. Teachers conduct extra sessions for students to prepare them for the GATE examination.

There are value added course offered to students and also lots of opportunities to participate in district level, state level and national level events that enhances the learning levels of the students.

Students having orientation towards research are motivated to present their work at conferences and competitions such as Avishkar.

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/hackathon/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2022	2698	148

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 has placed the student learning experience at the center of the institute's vision, and mission and strongly believes in providing hands-on and experiential learning to its students. With the help of the following activities:

Project-based learning: Students choose a defined project based on their theoretical subjects every semester. They are expected to implement the projects in groups during the term.

Infrastructural facilities like a full-fledged Maker Studio with laser cutting machines, 3D printing machines, CNC machines, tinkering workstations, etc., are available to the student.

A Component Library where students can issue various engineering tools and components, such as Arduino boards, microcontrollers, motors, sensors, etc., utilize them for their projects.

Virtual labs are encouraged, and online courses like NPTEL, SWAYAM, EDX, COURSERA, etc., are promoted amongst the students. Case Studies, Online Internships, Webinars, and Industry Expert Talks are conducted across all departments. Student Chapters and Professional Organizations such as CSI, IEEE, MESA, ETSA, AESA,

and ISHRAE organize many activities like webinars, expert talks, and competitions for students, which are managed entirely by students. This provides exposure to the professional world and helps develop coordination,

leadership, team building, management skills, and technical skills among students. Hackathons and Startup Challenges have helped many students enhance problem-solving abilities.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://www.pce.ac.in/students/project-based-learning/pbl-archive/#1563434938233-f658a6f9-6eec

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

Innovation and creativity are fundamental and essential qualities that PCE seeks to develop both in its students and faculty. Some of the initiatives for ICT enabled tools for an effective teaching-learning process are listed below. PCE has a dedicated recording room called "E-Learning Studio". An inhouse developed Light Board and recording facility in this

E-learning studio is part chalkboard and part projection screen. These videos are shared with students via YouTube or other learning platforms. These online lectures allow the faculty to more easily incorporate interactive, audio-visual tools, digital resources, animation and simulations in their lectures. Zoom, and Google meet are being used by all our faculty members to conduct online lectures, Online practicals, discussion with students and to conduct online examinations. Google Classroom is used by faculty and students for conducting assignments/quizzes and online submission of the same respectively. E-books, E-Journals, Digital Database are some of the ICT enabled tools used by our teachers for an effective teaching-learning process. Teachers regularly enroll and get certifications from NPTEL, Coursera, Edx courses thus, enhancing their knowledge in particular research areas. Virtual laboratories are also practiced to ensure continuity in the learning process as well as to introduce new

setups/experiments.

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****148**

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 of the semester. All the academic and non-academic activities are pre planned which has to be executed throughout the semester. After the commencement of the lectures midterm test are conducted to evaluate the performance of the students. Depending upon the results the extra classes are also given if required. 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. Feedback is collected from the students about the course and teaching of the course. The students give their opinion about the quality of teaching. Academic Management system (ASK) portal is also there where faculties 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 one 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

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

148

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

33

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)

1408

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

20

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

11

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

Every learner will be assessed for each course through (i) an Internal/Continuous assessment during the semester (ii) End Semester Examination ,

CIA includes examinations twice in a semester for each course, periodical assignments /tests /quizzes etc. EMS is completely automated using an inhouse developed software. This software manages the registration of students for the examination, hall

ticket generation, generation of result gazette, declaration of results and issue of final grade card. Question paper setters are appointed only from the panel of examiners which shall be updated and compiled from time to time, considering eligibility norms of the University. To maintain the uniformity in the assessment, schemes of evaluation along with solutions are made available to the examiners prior to the commencement of evaluation. After the assessment the answer papers are moderated and the examination cell shall compile the marks/grades and prepare the result gazette and the result shall be declared online through the student portal. In order to avoid the delay in the revaluation process, an open day is arranged where the students are allowed to see their answer papers. Any grievances regarding the assessment can be routed through the prescribed application form. Supplementary Examination for the failing/absent learners will be conducted twice in an academic year - after Odd and Even semester regular examination. The student who fails in the supplementary examination can appear for the Backlog examination which will be conducted at the end of every academic year.

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

The Course Outcomes 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. Referring to the University prescribed syllabus, COs for theory as well as laboratory courses are normally defined by the concerned course teacher in consultation with senior teachers. In general 4 to 6 COs listed out for every course across all departments.

The introductory lectures for all courses are meant for communicating the COs to the students. COs are revised, if needed, after seeking approvals from the department level committee. The Course Assessment Report prepared for all courses offered also lists the course outcomes and their attainments. Internal

Assessment test questions are prepared based on COs. Each question addresses a particular CO.

Since 2015, NBA has defined 12 POs thus maintaining a uniformity across all branches of the UG Program in Engineering. Workshops have been conducted to educate the teachers about the outcome based education and its implementation.

PSO and PEO have been defined and stated after much deliberations and involvement of stakeholders. This has been done for all undergraduate programs being offered at the institute. The POs, PSOs and PEOs are prominently displayed on Department notice boards, laboratories, classrooms, college brochure and also the institute website. The attainments of all the defined outcomes are also calculated and reported to the IQAC for review every year.

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/electronics-and-telecommunication-engineering/program-overview/

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

PCE is dedicated to outcome-based education and conducts regular evaluations of all courses according to the academic schedule. To determine the attainment of POs and COs, a systematic process is followed:

1. Direct attainment of COs is based on evaluations completed throughout the semester, including lab work, assignments, tests, seminars, projects, and open book study camp, with a 70% weightage. Indirect attainment of COs is based on responses from the Course Exit survey, with a 30% weightage. The total attainment of COs is calculated by adding the direct and indirect attainments.
2. The attainment of POs and PSOs is calculated by mapping each CO to the corresponding POs and PSOs and calculating the

direct attainment component of the POs and PSOs on a 3-point scale. Indirect attainment of POs and PSOs is based on feedback from alumni, graduates, and employers, also on a 3-point scale. The total attainment of POs and PSOs is the weighted average of the direct and indirect attainments.

Course Assessment Reports (CARs) are prepared for all courses, which are used to calculate PO and PSO attainment. If a course reports a low level of attainment, the HOD's meetings discuss it, and action is taken to improve attainment levels, such as offering bridge courses or workshops. The evaluation of COs, POs, and PSOs is used to evaluate the attainment of Program Educational Objectives (PEOs). All CARs must be approved by the relevant department-level committee before use in PO or PSO attainment.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.pce.ac.in/academics/bachelors/electronics-and-telecommunication-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

648

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

Pillai College of Engineering (PCE) has well-defined policies and procedures and a desire to do innovative and impactful research in various fields. Institute promotes quality research publications and develops collaborations. These collaborations help to enhance industry - institute relationships through MOUs for widening the scope of innovation and research options and funding opportunities for faculty and students.

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 and often provides incentives through promotion and increments. 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.

As an outcome, the well-defined progressive policies 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

02

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)	
12.07754	
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	No File Uploaded
3.2.2 - Number of teachers having research projects during the year	
7	
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	
15	
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	
4	

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	No File Uploaded

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 College of Engineering (PCE) promotes quality research publications and develops collaborations to enhance industry - institute relationships through MOUs for widening the scope of innovation and research options and funding opportunities for faculty and students.

Pillai Centre of Innovation and Entrepreneurship (PCIE) is set up with advanced equipment that are funded by DST, AICTE as well as various industries to support UG, PG and PhD students to conduct research. PCIE encourages and inculcates the entrepreneurial spirit among the youth. It is a forum to assist in developing entrepreneurs and support innovative ideas from ideation to fruition. PCE 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 has a dedicated space at PCE and has helped more than 20 startup companies.

As an outcome of funded projects, Robotics and Automation Station is set up to provide research infrastructure and 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 to provide a close parallel to industrially standard hardware, giving our students the chance to explore the technology that is used in industry.

<https://www.pce.ac.in/iic/>

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

58

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

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

6

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

39

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

16

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

65

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

33

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)

4.05712

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

Pillai College of Engineering (PCE) strives to impart, imbibe human values among the students, faculty and staff members. Institute conducts extension activities and outreach programs in collaboration with Industry, Community, through student chapters and NSS. Programs such as vaccination drive, Community Service Day, Cultural activities, cultural night, Uber Rang, Swachh Bharat Mission, Blood Donation, Health Checkup Camps and Online sessions on "Say No to Drugs & Yes to Life" are conducted to sensitize students to social issues and holistic development .

Children and Senior Citizens of Girija Welfare Association were invited and groceries like Rice, Moong Dal, Tur Dal, Poha, Rawa, Oil, Sugar, Milk Powder, Onion and Potatoes were distributed. Online Webinar was conducted on "Awareness on Stem Cell Donation" on NSS Day. NSS-PCE distributed essentials for 35 tribal families, Mahad Flood Affectants in Village Panchshil Nagar.

PCE's Nature Club organizes tree plantation drives, nukkad nataks on cleanliness and health awareness, environment awareness, etc to understand the economic, aesthetic and biological importance of preserving resources and reducing or eliminating the harmful impacts of man-made alterations. K12 Program of ISHRAE visited ZP schools to demonstrate basic science experiments. Internships under Swachh Bharat Mission were offered to spread awareness about

cleanliness, health and hygiene.

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

0

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

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)

17

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

3828

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

503	
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)

15

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	View File

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.)

The institute has modern and futuristic facilities to instill an inclination for sports among the student community to qualify them to participate in various national and international level competitions. The institute has a full-time sports director to train, equip and guide students in various sports.

The institute 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 22m x 44m is built 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 fulfills 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 in association with TAPAS, the student chapter of the institute. The institute's gymnasium 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 theaters and conclaves. Many cultural events like Alegria, Uber-Rang, etc., are organized on campus. Alegria is the Mega Festival of Pillai college 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)

497.4501

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)

PCE library is automated using KOHA ILMS software in its daily activities. It is installed, configured, maintained and up-gradated by the PCE library team on the 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. In use worldwide, its development is steered by a growing community of users collaborating to achieve their technology goals. KOHA's feature set 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.

The details of library description for PCE Integrated Library Management System (ILMS) are mentioned below:

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

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

A.Y

2021-2022

2020-2021

2019-2020

2018-2019

2017-2018

ILMS

Koha

Koha

Koha

Koha

Koha

Nature of

automation

Fully

automated

Fully

automated

Fully

automated

Fully

automated

Fully

automated

Version

21.11.05

17.05

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)

5.21668

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

478

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 include

a) Server: Institute has 7 high configuration servers -ENTAB XEON, NPTEL XEON, MASTER XEON, DIGITAL LIBRARY XEON, ACCOUNTS XEON, Academic Management System (AMS) and LMS.

? MODROB Workstation: AI and ML LAB with AMD Thread Ripper 2970WX Processor, Motherboard X399 Asrock with 1G * 2 Network, GPU Nvidia RTX 3090 24 GB , Memory 128 GB DDR4 3600, NVME SSD 1TB NVME m.2, and SSD 960 GB .

? High Performance Systems for AI and ML Workstation: 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

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

c) Other peripherals: 91 printers, 71 projectors, 7 smart boards, 30 Chrome Book, 30 WEB CAMs.

Software: Six legal system software like Windows, Linux etc. and 37 application software.

d) Educational Annual ZOOM Licenses 30 Nos.

Internet and Wi-Fi: 100 Mbps bandwidth

Security Arrangements: Cyberoam CR2500iNG - 10.6.5

Response: >=50 MBPS

ISP Name

Description

Nature of Upgradation

Date of Upgradation

Primenet Global

10 Mbps

10 Mbps

01-June-2011

30 Mbps

Upgraded from 10 Mbps to 30 Mbps

25-Oct-2012

120 Mbps

Upgraded from 30 Mbps to 120 Mbps

24-Nov-2014

250 Mbps

Upgraded from 120 Mbps to 250 Mbps

17-Apr-2017

Replacement / upgradation / addition is carried out based on the suggestions from HoDs, faculty, lab technicians and system administrator after reviewing, computer - student ratio, budget constraints, working condition of the existing equipment and 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
2742	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)**

104.5834

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.

College has come up with strategic tie-ups with medical facilities and put protocols in place to deal with COVID challenges. Protocols defined by UGC for COVID care are followed as safety and precautionary majors.

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

1174

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

174

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/#1565000424415-f3307b20-2604
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

377

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

343

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

34

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

74

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

13

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:

Women's Day Celebration Cultural Days

Freshers Day , bgCouncil Felicitation Shivaji Maharaj Jayanti

Farewell - Class of 2019, 2021 & 2022 Convocation - Batch 2021

Alegria 2022: 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 Celebration, 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, Spark, Vanguard Racing team, TAPAS, TPC, etc. All the student bodies are involved in organizing activities under the guidance of the faculty coordinators.

Students represent following academic and administrative bodies in the college: College Development Committee IQAC

Anti Ragging Committee Internal Complaint Committee

Prevention of Atrocities to SC/ST Committee Student Activities Committee TPC

Canteen Committee

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

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

65

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

PCE has clearly defined vision and mission and in line with the institute's vision of making responsible technical professionals with the help of trained and dedicated teachers, PCE has taken numerous initiatives to develop both students and faculty. The institute takes a 360 view of the development of itself and all

its stakeholders. There is a feedback system which seeks feedback from students, employers, alumni and parents to develop and evaluate teaching and learning pedagogy, curriculum design, social outreach initiatives and industry oriented programmes.

PCE has articulated broad institutional goals such as:

1. Empowerment of its stakeholders (Faculty, students, employers, alumni)
2. Increased Industry interactions through training, placement and consultancy
3. Conducting impactful research through its research centers and encouraging technology transfer
4. Creating social, moral, environmental awareness by following best practices such as recycling, using renewable sources or energy, value education, community service etc.
5. PCE also believes in maximum automation of its various processes so that faculty and students can focus on teaching, learning and research.

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/about/the-institute/

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 plan, monitor and execute smooth functioning of the Institute.

Apart from this, when most of the world had stopped in the pandemic situation, Team PCE was planning on self development and

institutional growth by transitioning to the online mode where Staff participated in numerous events and organized a variety of seminars/ faculty development programs/ workshops and orientation programs with our own faculty as resource persons.

Case Study on Conducting Certified Solidworks Associate level program:

During the pandemic as whole world shifted to online mode there was increased demand of candidates proficient in Solidworks and hence it was decided to conduct a 50 hour CSWA course on Solidworks in offline mode for students of Mechanical and Automobile engineering. The proposal was submitted to the HOD's of Mechanical and Automobile Engineering Department which was forwarded to the Principal for final approval. The Management and Principal provided immediate approval to conduct the program as it would give our students an internationally recognized certificate which would make them industry ready for placements. This highlights effectiveness of leadership towards 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 and knowledge sharing. At present PCE has over 13 active MOUs with different industries, PSUs and agencies. One of strategic goals (Goal 7) as per 2019-24 perspective plan is to become autonomous institute. An Autonomy status will help institute to have industry relevant curriculum and would also help student become more industry ready through placements. Accordingly PCE has received Autonomous status w.e.f 21-22. This shows effectively execution of perspective plan.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.pce.ac.in/research/mous-with-industries/
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, finance and institute's growth.

The Institute has IQAC and College Development Committee (CDC) working under Principal for strengthening 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. Principal interacts directly with HoDs, Dean R & D, Examination Cell, Placement Cell, Registrar, Librarian and Student Council for conduction of various activities in the department and Institute

There is a faculty and staff handbook in place for recruitment policies and procedures, promotions, service rules and all other details related to faculty and staff.

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 for acquiring 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 travelling 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. Institute motivates and supports faculty members financially for acquiring higher degrees from renowned and accredited Universities.

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

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

7

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

16

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.)

218

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 and external auditors annually. The audited accounts of PCE are annually scrutinized by the Shikshan Shulk Samiti (Fee regulating body) of the

Directorate of Technical Education (DTE), Government of Maharashtra. Auditing processes of PCE take place in two stages namely, Internal audit and 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, regular observation of operations of 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 and practices are meticulous

and carried out scrupulously by capable people. Regular monitoring of fund flow helps to monitor the financial health of the college and also helps in timely meeting of financial commitments to all debtors and all payment of salaries on time to its employees. PCE has always been a financially prudent institution.

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)

2717729

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. 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.

Other sources of income include Funding projects from Government/University in research or through consultancy. The College organizes Industry sponsored, paid conferences and Value added courses, seminars, workshops, etc. Keeping in mind the

academic calendar of the institute allows various agencies to utilize our well equipped laboratories, class rooms and all other infrastructures for conducting various examinations, conferences and seminars which generates additional funds. The institute has Policy for budget and it is mentioned in 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	nothing to add

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)

According to the institute's perspective plan ,PCE received autonomous status from the UGC during the A.Y 2021-2022.IQAC has contributed significantly in implementing the strategies and processes in this regard. IQAC has implemented 2 strategies during A.Y 2021-22 ,

1. Effective implementation of academic autonomy at the institute level:

The institute is implementing academic autonomy and the IQAC has developed a plan to benefit affiliated students. Second-year students will be offered bridge courses to adjust to the new autonomous curriculum. Additionally, optional multidisciplinary audit courses will be offered to third and final year students to provide the benefits of autonomy. By completing these courses, students will receive a course completion certificate and be better prepared for industry demands.

1. Multidisciplinary curriculum design:

PCE has developed an interdisciplinary engineering curriculum that emphasizes fundamental engineering concepts and practical applications through hands-on experiences and projects. The curriculum focuses on communication, teamwork, ethics, and problem-solving skills and also integrates theoretical and practical knowledge in relevant areas of study. The B.Tech program consists of 160-163 credits, including core courses, department-level specializations, and multidisciplinary Institute-level specializations in fields such as Business and Entrepreneurship, Bioengineering, Art and Humanities, Life Skills. Additionally, each department offers an 18-credit Honours/Minor multidisciplinary specializations degree program such as Blockchain technology, mobile and web app development, industrial IOT, electric vehicles and more. This well-rounded curriculum equips students with the skills and knowledge needed for success in a rapidly evolving engineering landscape

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/wp-content/uploads/2022/09/Revised-Syllabi-B.Tech-in-Mechanical-Engineering.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

The IQAC conducts internal assessments through academic audits to review the teaching learning process of the institution. The internal academic audit committee reviews departmental reports and suggests corrective measures for students and faculty. The IQAC also facilitates external assessments through NBA accreditation and the LIC of University of Mumbai. To improve quality, IQAC collects and analyzes feedback from stakeholders regularly.

Being an autonomous institution, PCE IQAC has initiated two major teaching learning reforms:

1. **Multidisciplinary Curriculum:** To enhance the learning experience for students, IQAC has recommended implementing a multidisciplinary curriculum that includes Honors and Minors Programs along with multidisciplinary audit and value-added courses that are available across all departments.

2. **Research and Innovation:** PCE IQAC promotes research culture and innovation among students by supporting project competitions and participation in national and state level competitions like Avishkar and Smart India Hackathon. Students receive funding for these events. Additionally, PCE provides funding for faculty to publish in reputable conferences and journals.

By adopting to the reforms and conducting reviews, a lot of incremental improvement has been observed in various activities:

1. Faculty members and students have published their research work in quality journals and conferences such as SCI, UGC CARE, Scopus, Springer , IEEE and Elsevier.
2. Increase in the number of copyrights and patents registered by faculty members and students to 14.
3. PCE IIC incubated Valectus Pvt. Ltd. won the Maharashtra startup week award 2020 and also selected as a Mentor Institute for the MMP of IIC.
4. The institute has won the overall championship in the Avishkar.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.pce.ac.in/academics/other-programs/add-on-courses/value-added-courses/

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/#1566380977681-e94c9274-fe83
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

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

One of PCE's top priorities is gender equality and women's empowerment. Within the institute and in our outreach, we work to promote gender equity and bring about positive attitude change. Every student at the institute has a mentor assigned to them as part of the mentor-mentee programme, which provides guidance on both academic and non-academic matters. Additionally, the institute employs a full-time counselor who is accessible to help students with problems relating to their personal and social lives or who can provide them with psychiatric counseling if necessary.

STEM Outreach Activities on the occasion of Women's Day and woman's day celebration is done every year in the campus for the woman staff and students.

About half of the institute's employees are women. Girls get access to a separate common room at the institute. These are used by the students for lunch and group talks.

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. During the year various mentoring sessions are carried out under the body.

Security personnel are deployed and CCTV is being watched closely to ensure the safety of the female employees in the campus. The Internal Complaints Committee was established in the institution 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)

PCE is concerned about the environmental issues arising from improper waste handling and takes responsibility to ensure that waste from the campus is properly disposed off and/or recycled. The institute uses dedicated bins to collect different waste at the source. Organic waste is collected in green dustbins and non-biodegradable waste in blue dustbins. The Municipality staff collects dry waste, and all the canteen organic waste and gardening waste is recycled to generate good quality manure which is used for in-house gardening. This is done in a composting plant located in the campus.

PCE practices rain water harvesting, recycling of non-potable water for watering plants, toilets etc. All the old non-working electronic goods are given away for recycling and new electronic appliances which adhere to the environment protection rules and power consumption norms are purchased at regular intervals. Electronic waste is minimized by reusing the electronic components

and regular maintenance. Pillai College of Engineering; in collaboration with Reliance India Ltd. has installed a Biocrux Plastic Bottle Recycling Machine Pillai Campus. All the plastic bottles are put in the machine which crush the bottles into small pieces which are further recycled to produce different products such as 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>A. Any 4 or all 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: Human assistance,</p>	<p>A. Any 4 or all of the above</p>
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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 believes in building students with high technical and moral values. The Institution is an Malayalam Linguistic Minority Institute and has students, teachers and staff from diverse cultural backgrounds. PCE takes several initiatives, through different events to bring everyone together and work in harmony towards societal and environmental causes. Various events and festivals like flood affected areas, K-12 programs, visits to Orphanages, awareness programs, Onam, Garba, Shivaji Jayanti etc. are celebrated with great enthusiasm and joy. In the academic year 2021-22, even when all were trying to come back to normal routine, PCE strives to keep the spirit of integrity high by celebrating these events online or offline mode. Few events were celebrated on campus with limited faculty members and following the government norms and guidelines and few were organised through the online platform. PCE continues to inspire students to take up work to support social activities, engage in cultural activities, to treat everyone equally regardless of race, religion and become responsible citizens.

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 Talk on IPR, Patent Filing and Research Proposals , Expert Talk on Research Methodology and IPR are conducted under various bodies of the institute.

A Meditation event on " Retreat from stress" and a seminar on "Healthy minds" is conducted under TAPAS-PCE with the help of Heartfulness institute for relaxation, meditation and rejuvenation/cleaning practices.

21 Days Meditation challenge 2022 is a very popular program under Heartfulness institute. This program was organized under TAPAS for all PCE students, faculty and staff and their family members.

Dhyanotsav 2021 is a meditation program for the students and staff.

" The Soul Search - the treasure within " yoga and pranayam session was conducted for faculty.

Vaccination Drive for the COVID conducted in the campus which was the need of time for students and faculty for being safe in the campus.

PCE staff and students participated in various activities like Meditation to relieve Stress.

My Story - Motivational Session by Successful Entrepreneur/Startup founder was conducted under IIC and ETSA as a motivation talk for the students. Talk on "Leadership for Youth" by a successful Entrepreneur was conducted for the students to motivate them to become an entrepreneur

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts

A. All of the above

periodic sensitization 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

Even Though the institute was trying to get back to offline mode after a period of almost two years, PCE celebrated many national and international commemorative days, events and festivals during the year like Independence Day, Teacher's Day, Engineers Day, Dussehra, Republic Day, International Women's Day ETC. Events were organised on an online mode or offline mode. India is a country imbued with the festive spirit and religion is a living force. Celebration of festivals served as an opportunity to strengthen the social and emotional bond within the institute. Such events also remind us about the contribution made by people in the field of technology and development. The cultural events organised also gave a break to the routine academic activities to the students and faculty members. It provides a platform for showing various extra curricular skills in students and faculty members. Celebrations also serves as a stress buster in the difficult time of the pandemic.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
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

1. Title of the Practice :Widening the Learning Spectrum
 2. Objective of the Practice :To provide wide range of optional courses to the students at institute and departmental level in the area of interest.
 3. The Context :The institute has put in efforts to identify and design courses in the curriculum which caters to the expertise required in the field of recent developments.
 4. The Practice :Institute was conferred autonomy status in November 2021. For its effective implementation, bridge courses for second year and Institute level audit courses, value added courses for third and final year were offered. These courses were designed to make the students enhance their multidisciplinary skills and prepare to meet industry requirements.
 5. Evidence of Success:Placement increased by 60% with an average package of 4.15 and highest of 7.5 lakhs. 35+ students got admitted to foreign universities for higher studies.
-
1. Title of the Practice:Promoting Environmental Friendliness
 2. Objective of the Practice :The environmental friendly practices promote consciousness towards adopting and promoting practices that can redefine environmental culture.

3. The Context :To impart knowledge, create awareness and develop an attitude of concern and contribute strongly to sustainable development by training and expanding young minds in researching solutions to the environmental challenges.
4. The Practice :Institute executed various programmes/activities for conservation of energy and environment. MoU with agencies like Biocrux to reduce or reuse plastic. Partnerships between the institution and NGOs like Rotary club in order to build capacity to provide suitable solutions to problems in society .

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 is striving hard to develop an ecosystem to make its graduates either more employable, a researcher or an entrepreneur.

Employable: Wide range of elective choices, audit courses and skill enhancement courses are offered to impart knowledge to the students in the domain of interest.

Researcher: Project competitions are organized to make the students deliver quality research projects. The students are also motivated to publish research papers and provide a platform by organizing conferences. Hackathons are organized to enhance their problem solving capabilities.

Entrepreneur: Institute Innovation Council organizes Business plan competitions, Motivational talks, Seminars, Workshops etc. to not only provide an innovation and startup culture in the institute but also gives and handholding to budding entrepreneurs.

These practices have led to overall development of the students which can be witnessed in the increase in the number and quality of placements, more student publication and participation in hackathons and also more student patents and student startups.

File Description	Documents
Appropriate link in the institutional website	https://www.pce.ac.in/igac/institutional-distinctiveness/
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

Institute has decided to enhance its curriculum to offer more electives in a structured way by offering departmental level and institute level specializations. Introduction of Honors and minor programs to provide an opportunity to the fast learners to broaden their learning spectrum. The institute is also planning to provide a few courses in multiple languages inline with the NEP.

Apart from curriculum efforts to increase awareness towards the environment will be practiced. Plastic awareness rallies in the nearby areas will be conducted.