



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	P.A.COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr. T. Manigandan
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04259221387
Mobile no.	9443584648
Registered Email	pacollege@yahoo.com
Alternate Email	manigandan_t@yahoo.com
Address	Palladam Road, Pollachi - 642 002
City/Town	Pollachi, Coimbatore
State/UT	Tamil Nadu
Pincode	642002

2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)			29-Apr-2019																
Type of Institution			Co-education																
Location			Rural																
Financial Status			Self financed																
Name of the IQAC co-ordinator/Director			Dr.K.Saritha																
Phone no/Alternate Phone no.			04259221387																
Mobile no.			8248027754																
Registered Email			pacollege@yahoo.com																
Alternate Email			iqacpacet@gmail.com																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			http://www.pacolleges.org/images/IQAC/AQAR_2018-19.pdf																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			http://www.pacolleges.org/images/IQAC/Acadamic%20Calendar%202019%20-%202020.pdf																
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.03</td> <td>2016</td> <td>16-Sep-2016</td> <td>30-Jun-2023</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.03	2016	16-Sep-2016	30-Jun-2023
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.03	2016	16-Sep-2016	30-Jun-2023														
6. Date of Establishment of IQAC			17-Jun-2015																
7. Internal Quality Assurance System																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td colspan="3"> </td> </tr> </tbody> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries								
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IQAC		
Collection of feedback from the stakeholders, Analyzing it and taking improvement action.	10-Oct-2019 1	1440
Conduct of Surveillance ISO 9001:2015 Audit	01-Feb-2020 1	1440
NBA Audit	22-Feb-2020 1	1440
Forth IQAC Internal Meeting	17-May-2020 1	1440
Third IQAC Internal Meeting	24-Dec-2019 1	1440
Second IQAC Internal Meeting	06-Sep-2019 1	1440
First IQAC Internal Meeting	14-Jun-2019 1	1440
Submission of AQAR for the Academic year 2018-19	14-Dec-2019 1	1440
View File		

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
P.A.College of Engineering and Technology	Conferred Autonomy	UGC	2019 3650	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

- NBA - NBA status is extended up to 30.06.2023 under Tier II category for 4 UG Programmes - B.E. - CSE, ECE, EEE and Mechanical.

- Provided support for receiving Autonomous Status for the Institution and ensured the quality of the syllabus and Curriculum

- Conduct of regular IQAC Internal meeting

- In association with various funding agencies, 12 Programmes for teaching-learning process were conducted internal and external faculty members and students

- Stakeholders feedback reviewed

No Files Uploaded !!!

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
NBA - Compliance report submission	NBA Team visited on 22.02.2020 Extension of NBA status for three more years under Tier-II category was received for 4 UG programmes - B.E. - CSE,ECE,EEE and Mechanical
Implementation of Autonomous Syllabi and Curricula	Governing body Meeting, Academic council Meeting and Board of study Meeting were conducted and implemented Regulation 2019
MHRD - AISHE	AISHE details were submitted on 13.1.2020
Submission of AQAR for the year 2018-19	AQAR for the academic year 2018-19 was submitted on 14.12.2019
IQAC Internal Academic Audit	Conducted for all the departments and report prepared.
To apply for funds to organize seminars/conferences/workshops	Grants received Rs. 3.7 Lakhs from various funding agencies
Consultancy Activities	Revenue generated from Consultancy during the year
Publish papers in Quality journals	59 papers were published in various journals
To improve Patent filing	2 Patent has been filed during this academic year
AICTE Funding Proposal Submission	14 funding proposals were submitted through AICTE web portal

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Governing Council

29-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

22-Feb-2020

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

13-Jan-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

The P.A. College of Engineering and Technology have Management Information System, aims to facilitates the excellence in teaching and research by providing software and technology resources to Institution. The College collects the general and Professional details of faculty members and students in a Database System. The main purpose is to give the information to the concern authorities whenever required. List of Modules: 1. Students Database 2. Faculty database 3. Attendance 4. Marks Management 5. End Semester Examination management 6. Hostel Students Database 7. Library Management 8. Transport Management. Students Database contains the detailed information of every student like Reg. Number, Name, Address, Parents Information, Blood group, contact information, etc. Faculty database contains the detailed information about the education qualification, experience, paper and patent publications, programmes attended and conducted and award received. Attendance: maintain and manage the

attendance of students/employees. Mark Management: Internal Assessment Mark and Model Examination marks can easily be managed through this module. Reports can be taken subsequently for all the mentioned assessments. End Semester Examination management: Exam hall seating details, conduct of examination and Semester exam result publishing Hostel management system is designed to manage all hostel activities like hostel admissions, fees, room, mess allotment, hostel stores generates related reports for smooth transactions. It is also used to manage monthly mess bill calculation, hostel staff payroll etc. The Institution also has a Library Management Software Auto Lib is used for accounts maintenance Transport Management: This module consists of the following sub modules student/faculty registration form , student/faculty ID form, student/faculty detail form, account detail form and root and stoppage detail

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
Nill	NIL	NIL	Nill
No file uploaded.			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Civil Engineering	22/06/2019	19CEBS101 Engineering Chemistry	22/06/2019
BE	Civil Engineering	22/06/2019	19CEBS102 Engineering Mathematics - I	22/06/2019
BE	Civil Engineering	22/06/2019	19CEES103 Basics of Electrical Engineering	22/06/2019
BE	Civil Engineering	22/06/2019	19CEES104 Engineering Graphics	22/06/2019

BE	Civil Engineering	22/06/2019	19CEBS105 Chemistry Laboratory	22/06/2019
BE	Civil Engineering	22/06/2019	19CEES106 Basics of Electrical Engineering Laboratory	22/06/2019
BE	Civil Engineering	22/06/2019	19CEES107 Workshop Practice	22/06/2019
BE	Civil Engineering	22/06/2019	19CEHS201 Communicative English	22/06/2019
BE	Civil Engineering	22/06/2019	19CEBS202 Engineering Mathematics - II	22/06/2019
BE	Civil Engineering	22/06/2019	19CEBS203 Engineering Physics	22/06/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
ME	Power Electronics and Drives	22/06/2019
ME	Computer Science and Engineering	22/06/2019
BE	Mechanical Engineering	22/06/2019
BE	Electrical and Electronics Engineering	22/06/2019
BE	- Electronics and Communication Engineering	22/06/2019
BE	Computer Science and Engineering	22/06/2019
BE	Civil Engineering	22/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	22/06/2019
BE	Computer Science and Engineering	22/06/2019
BE	Electronics and Communication Engineering	22/06/2019

BE	Electrical and Electronics Engineering	22/06/2019
BE	Mechanical Engineering	22/06/2019
ME	Computer Science and Engineering	22/06/2019
ME	Power Electronics and Drives	22/06/2019

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Land surveying using total station	19/02/2020	35
Multimedia and Graphics	01/07/2019	25
Python Programming	27/01/2020	27
Embedded Systems	17/02/2020	21
HDL Modeling Verilog	17/02/2020	26
PLC Programming its Applications	20/01/2020	17
Matlab for Electrical Engineer	20/01/2020	22
3D modelling with rapid prototyping (Production Quality Engineering)	24/01/2020	13
CNC (Production) Quality	11/09/2020	81
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1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	6
BE	Computer Science and Engineering	13
BE	Electronics and Communication Engineering	6
BE	Electrical and Electronics Engineering	4
BE	Mechanical Engineering	16
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes

Alumni	Yes
Parents	Yes

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

Feedback Obtained

The feedback is obtained from Students, teachers, Employers, Alumni and Parents. The feedback from the students is obtained from a centralized feedback system. The teachers, Employers, Alumni and Parents feedback is obtained from meeting, course committee meeting, Alumni meeting and Parents meeting for twice in a year/once in year. Students provide feedback on the teaching-learning process through a student satisfaction survey based on a standardized questionnaire developed and approved by this colleges IQAC. The link to the questionnaire is available on the institutional website and students can drop their completed feedback forms in the feedback collecting boxes located on the college campus.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	Power Electronics and Drives	18	5	1
BE	Mechanical Engineering	60	54	31
BE	Electrical and Electronics Engineering	60	25	19
BE	Electronics and Communication Engineering	120	80	70
BE	Computer Science and Engineering	120	105	93
BE	Civil Engineering	60	35	21
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1440	1	102	6	12

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
108	108	6	48	6	6
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

<p>Student mentoring system is available in our institution based on academic, personal and Career. Each class has one Faculty advisor and two counselors are identified and the students are counseled in the counselling hour. Regular Class committee meetings are conducted to identify difficulties in class room activities. Slow learners are identified and special counseling is given that will be recorded in the counseling register. For every 20 students a faculty advisor is associated in house caretaker. In case of any irregularity, either in attendance/academic performance or in general behavior, the particular student is counseled by faculty advisor and the Head of the Department. The faculty advisor is maintained the student records it consists of personal Bio-data, Leave forms, Internal and Semester marks and Achievements of the students in co- curricular and Extracurricular activities that will be recorded for every semester. Career counselling guidance is offered by the external and internal experts through HR conclave, Industry connect and Association activities.</p>
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Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1441	108	1:13

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
128	108	20	9	27

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. S. Suresh	Professor	Reviewer1 : Elsevier - Computers and Electrical Engineering Reviewer 2: International Journal of Computer Science
2019	Dr. D. Saravanapriya	Professor	Reviewer in International journal of research in computer science(IJRCS)
2019	Dr. D. Ganeshkumar	Professor	1.Editorial Board Member, in

			Automation, Control and Intelligent System 2. NPTEL Certificate of Appreciation, Instrumental role as SPOC for the "SWAYAM - NPTEL" local chapter
2019	Dr. L. Murali	Associate Professor	1. Reviewer, International journal of communication system in Wiley. 2. Reviewer, Journal of Ambient Intelligent and Humanized. 3. Reviewer, International journal of Engineering Technology 4. Reviewer, Internati
2019	Dr.Saritha	Associate Professor	Elite Gold in NPTEL online course on Transforms Calculus and its Applications in Differential Equations Reviewer : Physica Scripta, An International Journal
Nill	Dr.M.Rameshkumar	Associate Professor	Elite Silver in NPTEL online course on Introduction to R Software Elite Gold in NPTEL online course on Descriptive Statistics with R Software
Nill	Dr. M. Umaselvi	Associate Professor	Reviewer: International Journal of Computational Intelligence Systems
Nill	Mr. A. Kaliappan	Assistant Professor	Reviewer1 : VSRD International Journal Reviewer2 : Elsevier- Array Journal
Nill	Mrs. R. Kavitha	Assistant Professor	Reviewer1 : VSRD International

			Journal
Nil	Mr. F. Mahboobkhan	Assistant Professor	Elite in NPTEL online course on Digital Circuits
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CE,CS,EC,EE,ME	VIII/IV	29/09/2020	06/10/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	Nil	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.pacolleges.org/images/IQAC/PEOs,%20POs%20AND%20PSOs.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ME	BE	Mechanical Engineering	119	119	100
EE	BE	Electrical and Electronics Engineering	32	32	100
EC	BE	Electronics and Communication Engineering	78	78	100
CS	BE	Computer Science and Engineering	74	74	100
CE	BE	Civil Engineering	34	34	100
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2.7 – Student Satisfaction Survey

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

<http://www.pacolleges.org/images/IOAC/SSS-PACET.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

No file uploaded.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
Nill	NIL	NIL	Nill	NIL
No file uploaded.				

3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	2	CSIR	3.35	3.35
Any Other (Specify)	2	TNSCST	0.35	0.35
No file uploaded.				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

1

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Web Development	Computer Science and Engineering	01/11/2019
Software Testing	Computer Science and Engineering	07/01/2020
Entrepreneurship opportunities in Electronics	Computer Science and Engineering	16/07/2019
Cloud Based Machine Learning for IOT Application	Computer Science and Engineering	19/08/2019
Cyber Security and Ethical Hacking	Computer Science and Engineering	13/09/2019

Recent Trends in IT	Computer Science and Engineering	20/09/2019
Deep Reinforcement Learning with Double Q-Learning Algorithm	Computer Science and Engineering	26/06/2019
Esim Tool	Computer Science and Engineering	21/09/2019
One day Coordinators' Workshop on R	Computer Science and Engineering	12/10/2019
Alumini interaction	Computer Science and Engineering	14/10/2019
Alumini interaction	Computer Science and Engineering	05/10/2019
Placement Preparation	Computer Science and Engineering	06/07/2019
Project Framework	Computer Science and Engineering	20/07/2019
Software Testing	Computer Science and Engineering	20/07/2019
Project Development	Computer Science and Engineering	29/07/2019
Project Development	Computer Science and Engineering	03/08/2019
Software Testing Tools	Computer Science and Engineering	03/08/2019
Software Testing Tools	Computer Science and Engineering	03/08/2019
Software Testing Tools	Computer Science and Engineering	07/09/2019
Java Development	Computer Science and Engineering	13/09/2019
.Net Framework	Computer Science and Engineering	21/09/2019
Placement Preparation	Computer Science and Engineering	06/07/2019
Entrepreneurship Skills	Computer Science and Engineering	05/10/2019
Product Development	Computer Science and Engineering	19/10/2019
Java Development	Computer Science and Engineering	26/10/2019
Digital Marketing	Computer Science and Engineering	10/02/2020
Ethical hacking and Cyber Security	Computer Science and Engineering	13/02/2020
C/C	Computer Science and Engineering	29/02/2020

Software Development	Computer Science and Engineering	01/11/2019
Web Development	Computer Science and Engineering	01/11/2019
Software Testing	Computer Science and Engineering	07/01/2020
Competitive Exam Preparation	Computer Science and Engineering	25/01/2020
Java Programming	Computer Science and Engineering	08/02/2020
IBPS Preparation	Computer Science and Engineering	12/02/2020
Web Development	Computer Science and Engineering	12/02/2020
Aptitude Training	Computer Science and Engineering	12/02/2020
Innovations and Patents	Electronics and Communication Engineering	18/12/2019
Industrial Design, Copyrights and Branding	Electronics and Communication Engineering	01/02/2020
E-Vehicles	Electrical and Electronics Engineering	27/09/2019
Power semiconductor Devices	Electrical and Electronics Engineering	22/07/2019
Nitriding Process in Heat Treatment	Mechanical Engineering	20/08/2019
Evolution of Vehicle Technology	Mechanical Engineering	10/01/2020
Design for Production and Quality Program	Mechanical Engineering	02/08/2019
Non Destructive Testing	Mechanical Engineering	16/09/2019
Recent Scientific and Technological Advancements of Mathematical Approaches in Inventive Science and Engineering	Science and Humanities	13/06/2019
New Trends in Research and Modelling of Crystal Growth and its Energy Applications	Science and Humanities	18/07/2019
Recent Advanced Technology for Pollution Prevention for Clean and Green Environment	Science and Humanities	21/08/2019
Advanced Energy Storage System for Automotive and Power Applications	Science and Humanities	29/08/2019
Mathematical Model for	Science and Humanities	12/09/2019

Wireless Sensor Nodes Security		
The Operating and Characteristics Research of Multifunctional Nano Materials and Devices Through Nano Crystal	Science and Humanities	17/09/2019
Computational Methods in Multi-Scale, Multi-Uncertainty Multi-Dimensional Problems	Science and Humanities	26/09/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Idea Presentation	R.Pavithra	KPR college of Engineering and Tech.,	14/02/2020	3rd Prize
Paper Presentation	A.Ruhi Fathima, R. Indhumathi	Karpagam Academy of Higher Education, Coimbatore	18/02/2020	First Prize in Student Technical Symposium
Paper Presentation	M.Guhan, M.Rishikeswaran	Pollachi Institute of Engineering Technology, Poosaripatti	21/02/2020	Third Prize in Student Technical Symposium
Mr.Civil (Surveying)	S. Vinazhagan, C. Dharsan	Pollachi Institute of Engineering Technology, Poosaripatti	29/02/2020	Second Prize
Mr.Civil (Surveying)	M. Shivaa shri shanthini, I. Barkath S. Kalaiselvi,	Hindusthan College of Engineering And Technology, Coimbatore	29/02/2020	Second Prize
CAD Modelling	M. Shivaa shri shanthini	Hindusthan College of Engineering And Technology, CoimbatoreHindusthan College of Engineering And Technology, Coimbatore	29/02/2020	Second Prize
Code Cracking	S. Kalaiselvi	Hindusthan College of Engineering And Technology, Coimbatore	29/02/2020	Second Prize
Tech Hunt	S. Mohana	Dr.Mahalingam	25/09/2019	Third Prize

	Prasath	College of Engg., Tech, Pollachi		
Idea Box Contest	B. Soundharya	Amrita Vishwa Vidyapeetham, Coimbatore	14/02/2020	1st Prize
Idea Presentation	D.Pavithra Devi	KPR college of Engineering and Tech.,	14/02/2020	3rd Prize
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nill
No file uploaded.					

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	3
Electronics and Communication Engineering	1
Electrical and Electronics Engineering	1
Science and Humanities(Mathematics)	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Computer Science and Engineering	9	3.02
International	Electronics and Communication Engineering	17	0.99
International	Electrical and Electronics Engineering	6	2.3
International	Mechanical Engineering	7	0.80
International	Mathematics	4	0.11
View File			

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

Department	Number of Publication
Computer Science and Engineering	2
Electronics and Communication Engineering	3

Electrical and Electronics Engineering	9
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Pap smear collecting smart electronic penis for cervical cancer screening	Published	201941038468 A	18/10/2019
Monitor	Published	327401-001	30/08/2019
A robot with Automated Technology Capable of recovering children trapped inside abandoned bore wells	Published	201941054379	10/01/2020
View File			

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Variant of the Charged System Search Algorithm for the Design of Optimal Linear Phase Finite Impulse Response Filter	R. P. Meenakshi Sundhari	Automatika :Journal for Control, Measurement, Electronics, Computing and Communications	2019	0	P. A. College of Engineering and Technology, Pollachi.	Nil
Biomedical Image Cryptosystem Based on Visual Cryptography Using Disintegration of Image Blocks	R. P. Meenakshi Sundhari	Journal of Medical Imaging and Health Informatics	2019	0	P. A. College of Engineering and Technology, Pollachi.	Nil
Experiment	Mr.M.Pra	International	2019	1	P. A.	1

ntal Inves tigation on Concrete Using Recron Fibre as R einforceme nt	bu, Mr. M. Sathees Ku marMr.I.Mo ammed Rafi,	ional Journal of Innovative Research in Science, E ngineering and Technology			College of Engineerin g and Tech nology, Pollachi.	
A Perfor mance Pers pective: Content Based Image Retrieval System	Dr. D. S aravanaPri ya	Internat ional journal of recent technology and engine ering	2019	0	P. A. College of Engineerin g and Tech nology, Pollachi	Nill
Vehicular Accident detection and Alerting system	Ms. N. K Priyadhars ini	internat ional journal of Multidisc iplinary Research and Public ation	2019	0	P. A. College of Engineerin g and Tech nology, Pollachi	Nill
Skewed Data Class ification using Under Sampling with Deep Learning in KERAS	P.Sangee tha	Internat ional Journal of Science and Innovative Engineerin g Technology	2019	0	P. A. College of Engineerin g and Tech nology, Pollachi	Nill
Implemen tation of vehicle speed reducing system at speed	Dr.V.Kal pana	Internat ional Journal of Recent Technology and Engine ering	2019	0	P. A. College of Engineerin g and Tech nology, Pollachi	Nill
Palmprint Authentica tion Using Fuzzy Vault with Discrete Wavelet Transform	V. Sujitha , Dr.D.Chitr a	Journal of Advanced Research in Dynamical and Control Systems	2019	0	P. A. College of Engineerin g and Tech nology, Pollachi	Nill
Performa nce Analysis of hardware / Software	T. Manigandan	Journal of Electrical Engineerin g	2019	0	P. A. College of Engineerin g and Tech nology, Po llachi.P.	Nill

Model for Object Detection and Tracking in Moving Object					A. College of Engineering and Technology, Pollachi.	
Hybrid Variable Latency Carry Skip Adder in Multiple Structures	D Ganesh kumar	International Journal of Engineering and Advanced Technology	2019	0	P. A. College of Engineering and Technology, Pollachi.	Nill
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Experimental study on concrete in partial replacement of fine Aggregate with lathe waste	Mr.M.Prabu	International Journal of Scientific Engineering Research	2020	Nill	Nill	P. A. College of Engineering and Technology, Pollachi.
Foam Concrete Brick- An Experimental study	Mr. M. Sathees Kumar	International Journal of Scientific Engineering Research	2020	Nill	Nill	P. A. College of Engineering and Technology, Pollachi.
Experimental study on fly-ash bricks with steel waste	Mr.R.Gowri Shankar	International journal for science and advance research in technology	2020	Nill	Nill	P. A. College of Engineering and Technology, Pollachi.
A kernel support vector machine based anomaly detection using spat	D. Chitra, Priyadharsini.N.K	Springer, Journal of Ambient Intelligence and Humanized Computing	2020	5	Nill	P. A. College of Engineering and Technology, Pollachi.

io?temporal motion pattern models in extremely crowded scenes						
Analysis of Big Data Analytics in Healthcare Sector: Applications and Tool	Kaliappan .A and Chitra .D	Proceedings of the Journal of Computational and Theoretical Nanoscience. (Accepted for Publication).	2020	5	Nill	P. A. College of Engineering and Technology, Pollachi.
Scene Labeling using H-LSTM by predicting the pixels using Various Functions	Shanmugapriya .N and Chitra .D	Proceedings of the International Journal of Recent Technology and Engineering	2019	5	Nill	P. A. College of Engineering and Technology, Pollachi.
Palmprint Authentication using Fuzzy Valut with Discrete Wavelet Transform	Sujitha .V and Chitra .D	Proceeding of the Journal of Advanced Reserch in Dynamical Control systems	2019	5	Nill	P. A. College of Engineering and Technology, Pollachi.
An Integrated Texture and Edge Orientation based approach for labeling with Transform Domain	Shanmugapriya .N and Chitra .D	Journal of National Science Foundation of Srilanka. (Accepted for Publication)	2019	5	Nill	P. A. College of Engineering and Technology, Pollachi.
Medical Image Fusion based on filtering using Butterworth high pass	Dhriya .S, and Chitra .D	Proceedings of the International Journal for Trends in Technology	2019	5	Nill	P. A. College of Engineering and Technology, Pollachi.

filter and Cross Bilateral filter		and Engine ering				
Data Access Control Limited Secured Health Care Data Storage and Sharing in Cloud Computing Environmen t	Pugazhen thi .A and Chitra .D	Journal of Medical Systems - Springer	2019	5	Nill	P. A. College of Engineerin g and Tech nology, Pollachi.
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Semi nars/Workshops	6	73	32	50
Presented papers	6	12	Nill	Nill
Resource persons	Nill	6	1	12
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Bitumen testing	The Assistant Engineer, Block Development office, Kinathukadavu, Coimbatore	4800
Civil Engineering	Soil Testing	Er.P.Ashok Kumar, Block Engineer,, Block Development office, Kinathukadavu, Cbe	4000
Civil Engineering	Cube Testing	Er.G.K.Sharan Rajkumar, G.K. Builders Co., 67, Kottur road, Pollachi	600
Computer Science and Engineering	SMS Alert Mobile Application	Vishali Innovations, Coimbatore	15000

Electronics and Communication Engineering	TechDoc Hardware Development	Vishli Innovations Pvt. Ltd., Coimbatore	30000
Electronics and Communication Engineering	Microprocessor based digital Panel for pouch sealing	Jayam Packaging, Coimbatore	40000
Electrical and Electronics Engineering	Power Factor correction for oil and flour mill	Vinayaga oil and flour mills	60000
Mechanical Engineering	Structuring core on advanced Finite Element Analysis (using Ansys)	MaxCADD	15000
Mechanical Engineering	Material Testing	Adhavan Alloys	70000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Electronics and Communication Engineering	PCB Designing	Aishwarya Enterprises, Coimbatore	10000	10
No file uploaded.				

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Camp	P. A. College of Engineering and Technology, Pollachi	2	25
Pre-Rd Camp	P. A. College of Engineering and Technology, Pollachi	1	4
NSS Day Celebration	P. A. College of Engineering and Technology, Pollachi	2	55
International Yoga Day	P. A. College of Engineering and Technology, Pollachi	3	100
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies

during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NSS	National Level Best NSS Volunteer	Government of India	1
NSS	University Level Best NSS Volunteer	Government of Tamil Nadu	1
No file uploaded.			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Smart India Hackathon 2019	MHRD, Govt. of India	Project Contest	2	6
NSS	P. A. College of Engineering and Technology, Pollachi	Voters Awareness Rally	2	100
Swachh Bharat Marathon 2019	P. A. College of Engineering and Technology, Pollachi	Marathon 2019	2	100
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	Nil
No file uploaded.			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
MoU	Value added course	Ladder survey institute of technology, Chennai	19/02/2020	22/02/2020	35
Internship	Industry attachment programme	Caliber Interconnect Solutions Pvt Ltd, Coimbatore	10/02/2020	Nil	2

Inplant Training	Job Training	AJ Tech Research Labs, Coimbatore	05/12/2019	07/12/2019	7
Inplant Training	Job Training	SWOT Solar Technologies , Udumalpet	19/12/2019	21/12/2019	3
Inplant Training	Job Training	Caliber Embedded Technologies	28/11/2019	03/12/2019	2
Inplant Training	Job Training	AJ Tech Research Labs, Coimbatore	04/12/2019	06/12/2019	4
Project Work	An investigation study on effect of pressure die casting process parameter on mechanical properties	Sueeraa Global	01/01/2020	31/03/2020	4
Project Work	Optimization of Shot Blasting process parameters on Dublex Steel using Desirablity Function Analysis	Sueeraa Global	01/01/2020	31/03/2020	4
Project Work	Manufacturing and performance analysis of Hydraulic expanding Mandrel	VM Engineering	01/01/2020	31/03/2020	4
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Ladder survey institute of technology, Chennai	21/02/2020	Value added course placement	47
Enthu Technology Solutions India Pvt Ltd- Electronics	03/01/2020	Developing an industry institute relationship for	154

Manufacturing Services, Coimbatore.		enhancing the skills of teaching and learning methodologies to fill the curriculum gap.	
Entuple Technologies Pvt. Ltd, Bengaluru.	12/02/2020	To make the students to be familiar with the software development.	134
Coimbatore District Small Industries Association	26/07/2019	To develop entrepreneurship skills	65
New Technology mobile service and Training Institute	31/12/2019	For students training	5
CODISSIA - Coimbatore	20/08/2019	Membership	2
Deccan Pumps Pvt Ltd	31/07/2019	For students training	7
Best Heat treatment Services, 53, SIDCO Industrial Estate, Coimbatore-641 021	20/07/2019	Internship Training, Projects, Placement, Workshop, Seminars and Guest lecture	2
DECCAN Pumps Private Limited, Ganapathy, Coimbatore - 641 006	13/07/2019	In-Plant Training, Industrial Visits, Industry Project, Guest Lecture, Placement	13
Triangle Engineers, Ganapathy, Coimbatore - 641 024	28/08/2019	Internship Training / Projects /Research work/Recruitment	81
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
2	1.3

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing

Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Autolib	Fully	5.1	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	20646	5248282	1761	528300	22407	5776582
Reference Books	1249	600700	30	11500	1279	612200
e-Books	800	Nill	116	Nill	916	Nill
Journals	90	257550	14	42000	104	299550
CD & Video	1164	52100	21	900	1185	53000
Library Automation	1	50000	Nill	Nill	1	50000
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
No file uploaded.						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nill
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	853	20	100	1	1	6	12	100	0
Added	13	0	0	0	0	0	0	0	0
Total	866	20	100	1	1	6	12	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E-course material ECE	http://pacolleges.org/ECE-e-course material.pdf
E-course material EEE	http://pacolleges.org/EEE-e-course material.pdf
E-course material MECH	http://pacolleges.org/MECH-e-course material.pdf
E-course material CIVIL	http://pacolleges.org/Civil-e-course material.pdf
E-course material SH	http://pacolleges.org/S&H-e-course material.pdf

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
11	10.4	18	17.99

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

Laboratory Facilities: COMMUNICATION AND SOFT SKILL LABORATORY: Objectives

- To enable learners to develop their communicative competence in English with specific reference to speaking and listening.
- Enhance their ability to communicate effectively in interviews.
- Strengthen their prospects of success in competitive examinations.
- To impart the nuances of advanced English language skills in Listening, Speaking, Reading and Writing.
- To train students to acquire soft skills and competency in communication skills.
- To provide opportunities to learners to practice their communicative skills to make them become proficient users of English.
- To enable learners to fine-tune their linguistic skills (LSRW) with the help of technology to communicate globally.
- To enhance the performance of learners at placement interviews and group discussions and other recruitment procedures.
- To impart the nuances of advanced English language skills in Listening, Speaking, Reading and Writing.
- To train students to acquire soft skills and competency in communication

skills. Salient Features of the Lab • Globarena Software for English language practice • Digital Home-theatre speaker systems Roof • Speakers with studio • Master and woofer. • Head - phone for each student. • Networking of all systems with Teachers Console system. • Monitoring and supervising the lab practical's by the lecturers in English Library Facilities: The library transactions are carried out by Bar code Technology. It has the facility of Web OPAC- online search. So the library catalogue can be accessed through internet. The library is being subscribed to the E-resources. Sports facilities: • The college provides varied extra-curricular activities in Sports for training the students in Physical Education Gymnasium for both hostlers and day-scholars. • The Sports Activities for both boys and girls are conducted regularly inside the college campus. • We offer regular and standard coaching for the students through qualified Physical Director qualified Physical Trainee team of faculties. • The college has following facilities: > Volleyball Court > Ball Badminton Court > Handball Court > Basket Ball Court > Cricket Nets (Concrete and Turf Wicket) > Table Tennis > Carrom > Chess > Gym (separate for boys and girls) > Football. Computers • Computer centres with required software, hardware and internet connectivity at 100Mbps speed. • 866 computer systems including 5 servers. • 66 printers are available (Laser - 18DMP - 48). • Oracle server. • Rational rose enterprise suite server. • FTP server. • TELNET server. • DHCP server. • Provided system with internet facility is provided to faculty members for effective teaching and quality research. • Web portal, digital library with e-resources. Class Room Facilities Technology needs to be integrated into teaching and learning process and the Institution has done the best to ensure it in these well-equipped classrooms. Technology has been deployed for better student-teacher interaction, productivity and communication. It makes teaching and learning simpler and enjoyable. • Lecture Halls • Tutorial Rooms • Smart Class • Seminar Hall • Conference Hall Teaching Aids : White Board, Over Head Projector(OHP) , LCD Projector and Display Charts

https://www.pacolleges.org/images/IQAC/Procedures_PACET.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Arul Jothi Charitable Trust	322	7628500
Financial Support from Other Sources			
a) National	BC/MBC/DNC Welfare Scholarship SC/ST Welfare Scholarship, Higher Education Special Scholarship for SC/ST	1052	14415900
b) International	0	Nil	0
No file uploaded.			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved

Soft skill development	04/07/2019	80	Infosys Campus Connect and CSE department Faculty
Placement Preparation	06/07/2019	80	Paypal, Chennai
Placement Preparation	06/07/2019	80	Infosys, Mysore
Project Framework	20/07/2019	66	Infosys, Mysore
Software Testing	20/07/2019	66	TCS, Bangalore
Project Development	29/07/2019	60	Hexaware Technologies, Cochin
Project Development	03/08/2019	56	Zoho Corp., Chennai
Software Testing Tools	03/08/2019	56	Zoho Corp., Chennai
Software Testing Tools	03/08/2019	56	Zoho Corp., Chennai
Software Testing Tools	07/09/2019	60	Wipro Technologies, Chennai
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Orientation Programme, Placement Training and Seminars on 1. Advantage of Learning German Language 2. Study in Toms- Work in Europe 3. How to prepare for GATE and PSU Examinations	234	464	3	186
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
6	6	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
14	234	171	26	234	63
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E.	Mechanical Engineering	Wisdom School of Management	M.B.A
2019	1	B.E.	Mechanical Engineering	PSG College of Technology	M.E
2019	1	B.E.	Mechanical Engineering	Sri Krishna College of Engineering and Technology	M.B.A
2019	1	B.E.	Mechanical Engineering	PSG College of Technology	M.E
2019	1	B.E.	Electrical and Electronics Engineering	RCT - Trichy	M.E- PED
2019	1	B.E.	Electrical and Electronics Engineering	GCT- Coimbatore	M.E- PED
2019	1	B.E.	Electrical and Electronics Engineering	P.S.G. College of Technology	M.E - C&I
2019	1	B.E.	Computer Science and Engineering	PSG Institute of Technology, CBE	M.E. CSE
2019	1	B.E.	Computer Science and	Jansons B School, CBE	MBA

			Engineering		
2019	1	B.E.	Civil Engineering	Coimbatore institute of technology	ME
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	3
No file uploaded.	

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

Activity	Level	Number of Participants
For Sports - Anna University Zone 10 Sports Co-ordinating Centre	Zonal (Intercollegiate)	70
For Sports - Anna University Zone-10, Intercollegiate Ball Badminton (Women) tournament for the year 2019-20	Zonal (Intercollegiate)	70
For Cultural Activities - PAchamithra'19	National	130
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	National Level Best NSS Volunteer	National	Nill	Nill	72171510415	E. Gokul Prasanth
2019	Gold	National	Nill	Nill	721717114046	S.Karthic
2019	Gold	National	Nill	Nill	721717114092	Varunkar thikkumar. K
2019	Silver	National	Nill	Nill	721717114086	Shabari Ganesh.T.K
2019	Gold	National	Nill	Nill	721717114046	S.Karthic
2019	Gold	National	Nill	Nill	721716104014	Ms. G. P. Greeshma
2019	Gold	National	Nill	Nill	72171610	Ms. S.

					4013	Gayathiri
2019	Gold	National	Nill	Nill	72171610 6028	Ms. R. Lekhasree
2019	Gold	National	Nill	Nill	72171710 3030	P.Suba
2019	Gold	National	Nill	Nill	72171710 4008	Ms. A. Arthi

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

Yes, each department has a Student's Association for which Secretary, Joint Secretary and office bearers are elected from fourth year, third year and second year respectively. A system of class representatives (a boy and a girl) is working fine for handling issues related with student needs. Additionally, the institute has a number of students committees formed for particular purpose/ events from time to time over academic year. They are:-

- Anti-ragging committee.
- Hostel mess committee.
- Cultural events
- Sports games.
- Discipline committee.
- Placement coordinators

Also, the college has the professional affiliation members like ISTE, IEEE, CSI, IETE and SAE The formation and composition of the above students committees is need based and generally, each committee consists of about five to ten students from senior batches, having good organizational / managerial capabilities to assist in smooth conduct of various events / functions.

- Organize different cultural, sports and technical symposium throughout the year
- Maintain healthy relations between teaching, nonteaching staffs and students
- Take care of the academic interest of the students
- Publish annual magazine and wall magazines in due courses
- To assist in conducting all the academic tours and field works throughout the year.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

- Maintaining database of the alumni of the institution.
- Organizing periodic meeting for alumni through alumni cell.
- The alumni, assists the Institution by providing information to the Training and Placement Cell about job openings in companies and additional needs for students development

The alumni deliver talks on current industry trends.

5.4.2 – No. of registered Alumni:

1325

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

The Alumni meeting was conducted during the month of August 2019 and March 2020. Alumni delivered talks on the current trends in the Industry. Alumni delivered motivation talk to the students

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500

words)

The governing council empowers the Principal to schedule and implement the council-approved policies by autonomous government by delegating authority to all HODs, various administrative bodies, committees, and cells at various levels for better performance, thus promoting a participatory management community. Academic Improvement and Curriculum Development: The Academic Council makes academic decisions on the implementation, review, and reformulation of courses and syllabi by taking input from all stakeholders into account. The HoD is in charge of the Departments academic affairs and oversees day-to-day operations relating to teaching as well as areas related to Curriculum development, Placement training, RD, and Consultancy. Faculty members of each department are responsible for planning various academic events as well as arranging professional society/club activities. Class Advisors and Ward Counsellors play an important part in successfully overseeing student compliance and monitoring overall performance. The COE office is in charge of all examination-related operations at the College. IQAC assists the Department Head in carrying out instructional and managerial tasks efficiently. IQAC Coordinators are encouraged to confirm and ensure the departments quality culture in providing outcome-based education.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	From the 2019 Batch onwards, a new regulation and curriculum based on industrial requirements will be introduced for all courses offered at the institution in order to prepare highly qualified and educated engineering graduates who can meet challenges and make a difference in society. CDC cell is playing a key role in the execution of autonomy especially in designing curricula and syllabi for all UG and PG Degree courses. The Objectives of CDC are to: • Interact with the subject experts and involve them in designing curriculum for enhancing the quality of teaching and learning and exchanging of expertise for the mutual benefit through knowledge networking. • Implement Choice Based Credit System (CBCS) effectively. • Introduce inter/ multidisciplinary studies. • Organize academic - industry meet for identification of knowledge and skill required for employability in private and public sectors.
Teaching and Learning	• The course plan for every subject is planned before the start of every semester. • Preparation of lecture notes and question bank. • Using of ICTs and NPTEL videos for handling

class in effective manner. • Incorporating counselling, tutorials, seminars and library periods in time table. • Conducting remedial classes for slow learners. • Organizing industrial visit • Encouraging students to attend inplant training programmes/Activities. • Encouraging Major/Mini project works. • Encouraging students to attend seminars, workshops and conferences. • The effectiveness of teaching - learning process is reviewed on regular basis • Innovative methods of teaching and learning methods are adopted it includes e - journals, NPTEL lectures to enhance the teaching learning process. • ICT enabled methods are opted.

Examination and Evaluation

The COE issues the timetable for every semester, two weeks prior to the commencement of the Examinations. Nominal roll is prepared for the examination. After that COE appoints Question Paper (QP) setters with approval of Principal. The QP received from the setters are scrutinized in the COE office confidentially and forwarded for printing. On completion of the examinations, the process of the centralized evaluation of answer scripts starts immediately. After evaluation, the same is verified for its correctness. The results are published in the College website after obtaining approval from the Result Passing Board.

Research and Development

1. Two Departments (Computer Science and Engineering, Electrical and Electronics Engineering) of our College have been recognized as Ph.D research centres by Anna University. 2. Research and Development Cell has been framed to guide research activities. 3. The Faculty members are financially supported to attend seminars, conferences, workshops, invited lectures, FDP's and research activities. 4. The institution motivates the faculty members and students to publish patents • Journals, reference books, internet, research lab facilities are made available to both faculty members and students. 5. PACET provides 14 days on duty per academic year for faculties to pursue their higher studies. 6. Faculty members and student interaction with the industry

peoples has been arranged. 7. MOUs have been signed. 8. Encouraging faculty members to submit technical papers in reputed journals and also encouraging to submission of proposals to various funding agencies at state level, national level and international level. 9. Ensuring minimum five proposals from each department are submitted to various funding agencies every month. 10. The students are also motivated to submit their projects to TNSCST, ICTACT and other funding agencies.

Library, ICT and Physical Infrastructure / Instrumentation

Library The Library takes predominant role in supporting the academic activities of the institution by establishing, maintaining and promoting the following library and information services, both quantitatively and qualitatively. • Fully computerized barcoded circulation services AUTOLIB Advanced integrated Library automation management software has been installed in the Library . • Online Public Access Catalogue (OPAC) in the library to search for books and other academic materials of the library such as CDs, research articles etc. • Onsite use to Textbooks, Reference books Back volumes and Print/Online journals inside the library • Reference Services (Encyclopaedias, Dictionaries Yearbooks, Handbooks, research articles and Previous year question papers) • Accessing full text of international journals • DELNET(Developing Library Network) Service • Reprography(Xerox, Scanner and Printout) • CD DVD Access Writing facilities • Open Access System • Barcoded User Entry System • Internet Access facility Physical Infrastructure / Instrumentation • Computer centres with required software, hardware and internet connectivity at 100Mbps speed. • 866 computer systems including 5 servers • 66 printers are available (Laser - 18DMP - 48). • Dedicated computing facility 859 • Oracle server. • Rational rose enterprise suite server. • FTP server. • TELNET server. • DHCP server. • Provided system with internet facility is provided to faculty members for effective teaching and quality research. • Web portal, digital library with e-resources.

Human Resource Management

Various welfare schemes are provided for the benefit of teaching and

nonteaching staff members in the institution. • Casual leave, Vacation leave, medical leave, maternity leave and PF for all faculty members and staff members. • Free transport for nonteaching staff members and subsidized rate for teaching staff. • Faculty members who handle value added courses are benefitted with remuneration. • All the teaching and nonteaching members are covered under accidental insurance which is made mandatory in the institution. • Almost all the eligible faculty members have availed the above benefits.

Industry Interaction / Collaboration

Among students to make innovative projects. • Consultancy services are provided by the industry experts. • Signing of MoUs and accreditation by industries • Students are permitted to do their project work in industries. • Faculty members those who attended training in industries will share their knowledge and experience with the other members of the department. • Industry Institute Partnership cell has been created to connect the students and faculty members with industry, • Students are permitted for Industrial visit and to undergo inplant training programmes and internship training programmes in industries. Internships training programme provide work experience opportunities to the students

Admission of Students

The College ensures transparency in the admission process by strictly adhering to the guidelines issued by AICTE, Govt. of Tamil Nadu, Directorate of Technical Education and Anna University. U.G. PROGRAMMES • Anna University admits 65 percentage of the students under "Single Window System" selected through Tamil Nadu Engineering Admissions (TNEA) and the remaining 35percentage of admissions are under Management Quota through Association of Management of Anna University affiliated Self financing Engineering Colleges in Tamil Nadu. • About 20 percentage of the sanctioned intake is admitted under lateral entry as per AICTE norms during the second year. P.G. PROGRAMMES • Candidates must have passed an appropriate Under Graduate Degree examination of Anna University as prescribed under Tamil Nadu Common

Admission (TANCA) criteria. • Candidates are admitted through Tamil Nadu Common Entrance Test (TANCET) conducted by Anna University and also through Common Entrance Test (CET). RESEARCH PROGRAMMES • Research scholar selection for full time or part time is done by Anna University through the Common Entrance Test and interview.

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

E-governance area	Details
Planning and Development	Planning and Development: All information including office orders and Inter Office Correspondence were communicated through institution email. All staff members are provided with exclusive official email ids. Digital Document Filing System has been successfully implemented to encourage paperless administration. All documents like policies, service rules and academic calendar were uploaded in the institution website.
Administration	• Academic Management • Hostel Management • Controller of Examination Office • Library • Alumni
Finance and Accounts	Tally Software is used for recording and maintaining all finance related transactions.
Student Admission and Support	A separate Admission cell has been deployed for maintaining all admission related data of the institution. Periodical communications regarding the admission application status is done through this cell. All admissions related queries and report generations are handled through this cell. Auto Lib Software Systems and Online Publication of results for student support.
Examination	Controller of Examination (COE) Administration including payment of Examination fees and downloading Hall tickets. Coxco Software is used for recording and maintaining all documents.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support

2019	Mr.I.Mohammed rafi	Recent Scientific and Technological Advancements of Mathematical Approaches in Innovative Science and Engineering	CSIR Sponsored Seminar	250
2019	Mr.T.Ravindaran	Recent Scientific and Technological Advancements of Mathematical Approaches in Innovative Science and Engineering	CSIR Sponsored Seminar	250
2019	Dr. V. Kalpana	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
2019	Dr. D. Saravanapriya	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
2019	Mrs. N. K. Priyadharsini	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
2019	Mr. A. Pugazhenth	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
2019	Mr. S. Sureshkumar	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
2019	Mr. K. Sundaresan	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500

2019	Mr. N. Anand	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
2019	Mrs. E. Jananandhini	Deep Reinforcement Learning with Double Q-Learning Algorithm	CSIR Sponsored Seminar	500
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Nanotechnology for Health-Innovative Designs for Medical Diagnosis	Nill	19/12/2019	20/12/2019	8	Nill
2019	eSim first course in IoT series for Teachers	Nill	21/06/2019	21/06/2019	3	Nill
2019	Recent Scientific and Technological Advancements of Mathematical Approaches in Inventive Science and Engineering	Nill	13/06/2019	14/06/2019	15	Nill
2019	New Trends in Research and Modelling	Nill	18/07/2019	19/07/2019	13	Nill

	of Crystal Growth and its Energy Applications					
2019	Recent Advanced Technology for Pollution Prevention for Clean and Green Environment	Nill	21/08/2019	22/08/2019	13	Nill
2019	Advanced Energy Storage System for Automotive and Power Applications	Nill	29/08/2019	30/08/2019	13	Nill
2019	Mathematical Model for Wireless Sensor Nodes Security	Nill	12/09/2019	13/09/2019	15	Nill
2019	The Operating and Characteristics Research of Multifunctional Nano Materials and Devices Through Nano Crystal	Nill	17/09/2019	18/09/2019	13	Nill
2019	Nill	Awareness programme on Energy storage system	27/06/2019	28/06/2019	Nill	10
2019	Nill	Awareness programme on Green Computing	10/12/2019	10/12/2019	Nill	12

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
NPTEL AICTE Sponsored FDP on "Design of Reinforced Concrete Structures	3	01/07/2019	31/10/2019	120
NPTEL - Online Course on "Geotechnical Engineering Laboratory"	2	01/07/2019	31/10/2019	120
NPTEL - Online Course on "Maintenance and repair of concrete structures"	1	01/07/2019	31/10/2019	120
NPTEL - Online Course on "Maintenance and repair of concrete structures"	1	01/01/2020	30/04/2020	120
C/C Workshop by CSE IIT Bombay	14	29/02/2020	29/02/2020	1
NPTEL- AICTE FDP - Software Engineering by Indian Institute of Technology, Kharagpur	1	01/07/2019	31/10/2019	120
CSIR sponso Deep Reinforcement Learning with Double Q-Learning Algorithm	11	26/06/2019	27/06/2019	2
Workshop on eSim, a First Course in the IoT Series for Teachers by By	2	21/09/2019	21/09/2019	1

IIT Bombay				
Workshop on Computational Methods in Multi-scale, multi-uncertainty multi-Dimensional problems	13	26/09/2019	27/09/2019	2
One day Coordinators' Workshop on R	1	12/10/2019	12/10/2019	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
108	108	108	108

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident Fund Insurance Medical and Maternity Leave	Provident Fund Insurance Medical and Maternity Leave Free transport	Family Insurance scholarship for deserving students

6.4 – Financial Management and Resource Mobilization

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

Internal financial Audit is done by the Financial Committee and Governing Council Body. External financial Audit is done the professional experts nominated

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Revenue generated through consultancy	249400	Consultancy
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6.4.3 – Total corpus fund generated

249400

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TUV Nord	Yes	IQAC
Administrative	Yes	TUV Nord	Yes	IQAC

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

1. The communication was sent to the parents regarding Academic performance of the students at the end of every test. 2. Department wise Parents meetings are conducted to discuss the academic performance of the students. 3. Feedback is received from parents regarding infrastructure and curriculum design.

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

1. Allowed to pursue the higher studies 2. They are sponsored for training wherever necessary 3. Increments are given for obtaining higher studies

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

1. Timely submission of AQAR 2. Academic and Administrative Audit 3. Extension of Accreditation from NBA

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	First IQAC Internal Meeting	14/06/2019	14/06/2019	14/06/2019	18
2019	Second IQAC Internal Meeting	06/09/2019	06/09/2019	06/09/2019	18
2019	Third IQAC Internal Meeting	24/12/2019	24/12/2019	24/12/2019	18
2020	Forth IQAC Internal Meeting	17/05/2020	17/05/2020	17/05/2020	18
2020	ISO Surveillance Audit	01/02/2020	01/02/2020	01/02/2020	25
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Equipping and Empowering Women	09/07/2019	09/07/2019	558	Nill

Alienation ,depression and Anxiety among Youth at risk	09/07/2019	09/07/2019	558	882
An Awareness Campaign about Crime against Women and Children	25/07/2019	25/07/2019	558	Nill
Women Health and Hygiene	03/02/2020	03/02/2020	558	Nill
Being a Women Being an Entrepreneur	14/02/2020	14/02/2020	558	10
Awareness of Sexual Harassment prevention in workplace	06/03/2020	06/03/2020	558	10
How a girl can be bold to face current challenges	06/03/2020	06/03/2020	558	10
Honouring Best Woman Teacher and Best Woman Entrepreneur	09/03/2020	09/03/2020	558	10

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
20 kW Solar Panels is installed in the administrative block and a solar street lights are also is installed near the college entrance. • Energy Conservation Club of the College identifies and proposes various energy conservation measures like TURN ON the lights and fans in the classrooms after the commencement of class hours, TURN OFF the lights in the corridors and toilets when not Required. • Power factor is maintained as per EB norms. • Energy saving CFL, LED and Solar lights has been installed in the campus

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Braille Software/facilities	No	Nill
Rest Rooms	Yes	5
Scribes for examination	Yes	Nill
Special skill development for differently abled	No	Nill

students		
Any other similar facility	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	19/08/2019	5	Aadhar card entry	NIL	50
2019	1	1	16/09/2019	5	Drought Relief Fund Entry	NIL	55
2020	1	1	06/04/2020	5	Teaching MS office to Government school Faculty	NIL	35
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
HANDBOOK	24/06/2019	The handbook includes the roles and responsibilities of the students, their dress code and leave regulations. The general instructions are also given for a student which includes the Antiaging and action taken for the consumption of Alcohol, Tobacco and Drugs. The Code of Ethics an Engineer has to follow, Academic Calendar and Timetable template is also included

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood Camp	28/01/2020	28/01/2020	60
International Yoga Day	21/06/2019	21/06/2019	60

During induction programme for first year students (2019 - 20 batch), the orientation on Universal Human Values was offered to all first year students.	01/07/2019	05/07/2019	249
Celebration of Independence Day	15/08/2019	15/08/2019	1589
Pre-Rd Camp	22/08/2019	22/08/2019	4
Celebration of Teacher's Day	05/09/2019	05/09/2019	1589
Blood Camp	17/10/2019	17/10/2019	100
Celebration of Republic Day	26/01/2020	26/01/2020	1589
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Energy Conservation Club of the College identifies and proposes various energy conservation measures like switching off the lights and fans in the classrooms after the class hours, switch-off the lights in the corridors and toilets when not in use.
- In campus, usages of plastic bags are restricted.
- All the buildings in the campus are provided with rain water harvesting facility, in order to increase the water table, as a part of conservation and preservation of water resource..
- The solar power plant is installed and operated
- Centralized section-wise UPS systems for computers and equipment.
- Usage of electronic chokes in all tube lights
- Energy saving CFL and LED lights have been installed in the campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Value-added courses help the student to obtain diverse knowledge about upcoming technologies apart from academics.
2. Remedial classes for slow learners have been conducted to improve the overall academic performance

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

https://www.pacolleges.org/images/IOAC/Best%20Practices_PACET.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

1. P.A. College of Engineering and Technology is developing a centre of excellence for quality professional education, research, and training.
2. PACET got Autonomous Status for all 4 years in a rural area within 10 years of experience.
3. PACET has provided good placement for rural students.
4. For economically weaker sections management provides fee concession based on cut-off marks obtained by the students.
5. The Institution grants scholarships based on the cut-off marks in the qualifying examination and the economic background of the student.

Provide the weblink of the institution

<https://www.pacolleges.org/>

8.Future Plans of Actions for Next Academic Year

1. The NAAC Reaccreditation Procedure 2. Increase the number of consultancy projects undertaken by faculty members. 3 Increase the number of patents undertaken by a faculty member. 4. Encouraging faculty members to submit project proposals to various funding agencies and to carry out research and development programs. 5. Encouraging students to do ground-breaking experiments and use the copyright.