

COLLEGE OF ENGINEERING PATHANAPURAM

ANNUAL REPORT 2023-24

I. BRIEF HISTORY OF THE COLLEGE

The College of Engineering Pathanapuram, one among the nine Govt. Cost-Sharing Engineering Colleges under the Co-operative Academy of Professional Education, Kerala, which is promoted by the Co-operative Department of the Government of Kerala, was started in the year 2011. The College is affiliated to APJ Abdul Kalam Technological University.

Land and Location:

The 25 acres of land comprised Sv. No. 688/1/1 of Piravanthoor Village for setting up an Engineering College. CAPE was permitted to take an advanced possession of the land as per G.O. (Ms.) No. 200/2000/RD dated 30.06.2000. It is located 7 Km away from Pathanapuram and Punalur towns. The nearest railway station is at Punalur which is 8 Km from the College campus.

Board of Governors:

The Hon'ble Chief Minister of Kerala, Shri. Pinarayi Vijayan is the Ex-officio Chairman of the Society. The Hon'ble Minister for Co-operation & Registration Shri.V N Vasavan is the Ex-officio Vice Chairman of the Society and the Chairman of its Board of Governors with the Director of the Academy as the Member Secretary of the Society. The governance of the CAPE is vested with a seven member Executive Committee headed by the Hon'ble Minister for Co- operation.

College Council as per University Statute: 2023-24 Council

Sl. No.	Name	Designation
1	Dr. Bijukumar. R, Principal	Chairman
2	Sri.Prasanth R, HOD in CSE	Members
3	Smt.Sheeja Vincent, HOD in ECE	
4	Smt. Abjhasree S, HOD in EEE,CGPC Co-ordinator	
5	Sri.Thulaseedharan R, HOD in ME	
6	Smt. Deepa R, HOD in CE	
7	Sri. Alish Viji Varghese,HOD in DASH	
8	Smt. Namboodiri Radhika Krishnan, (Staff in charge of Women's	
9	Hostel)	
10	Ms. Aparna S(S8 EC), Arts Club Secretary	
11	Mr. Jishnu C (S6 CSE), General Secretary	
12	Sri.Syamlal. T, KTU Co-ordinator	
13	Smt. Rana Surendran, IQAC Coordinator	
14	Sri. Aneesh T, staff in charge of Physical Education	Secretary

II.ACADEMIC ACTIVITIES

AICTE Approval:

The AICTE approval of the College of Engineering Pathanapuram for the academic year 2023-24 was accorded by the AICTE as per Order No. F.No. South-West/1-36971093229/2023/EOA dated 15/05/2023.

University Recognition:

University affiliation to the College of Engineering Pathanapuram for the academic year 2022-23 was accorded by the APJ Abdul Kalam Technological University vides order no. KTU/A/456/2015 dated 14.07.2023

Govt. Sanction:

Government has accorded sanction for starting four B.Tech courses as per the G.O (ms) No. 40/10/H.Edn TVM dated 03.03.2010, one additional course as per the G.O (Rt) No. 281/2017/Co-op dated 30/05/2017, two diploma courses sanctioned as per G.O. (Rt) No. 237/2021/Co-op dated 31/03/2021, closure of two B.Tech Courses and starting of two additional diploma courses as per G.O.(Rt) No.247/2022/Co-op dated 07/04/2022.

Academic Programs:

The College offers Three B Tech courses in the following Engineering Disciplines and four diploma programs with a sanctioned intake as mentioned below, in each branch per year.

1. Civil Engineering (60)
2. Computer Science and Engineering (60)
3. Mechanical Engineering (60)
4. Diploma in Robotic Process Automation (60)
5. Diploma in Renewable Energy (60)
6. Diploma in Electronics and Communication Engg:(60)
7. Diploma in Electrical and Electronics Engg: (60)

Working hours:

The College works from 9.00 am to 4.00 pm as per KTU direction. The number of working days per week was fixed as five as per workload. The office working time is from 9.00 am to 4.00 pm on all six days except on public holidays declared by the Government.

Admission during the last 3 years:

2023-24													
Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted	
	Merit	Mgt	TFW	NRI	EWS		Merit	Mgt	TFW	NRI	EWS		
CE	54	3	0	3	6	65	13	5	0	0	0	18	
CSE	54	3	3	3	6	68	33	6	3	0	4	46	
ME	54	3	0	3	6	65	2	3	0	0	0	5	
2022-23													
CE	54	3	0	3	6	65	23	0	0	2	0	25	
CSE	54	3	3	3	6	68	55	0	3	3	4	65	
ME	54	3	0	3	6	65	5	0	0	0	0	5	
2021-22													
CE	42	15	3	3	4	67	37	0	1	2	0	40	
CSE	42	15	3	3	4	67	43	4	3	2	2	54	
ECE	21	8	1	1	2	33	4	0	0	1	0	5	
EEE	21	8	1	1	2	33	0	0	0	0	0	0	
ME	42	15	3	3	4	67	7	0	0	2	0	9	

Diploma Programs (Admission during 2021-22)

Branch	Total Sanctioned	Total Admitted
Renewable Energy	60	9
Robotic Process Automation	60	19

Diploma Programs(Admission during 2022-23)

Branch	Total Sanctioned	Total Admitted
Renewable Energy	60	12
Robotic Process Automation	60	21
Electrical and Electronics Engineering	60	43

Electronics and Communication Engineering	60	20
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Diploma Programs(Admission during 2023-24)

Branch	Total Sanctioned	Total Admitted
Renewable Energy	60	5
Robotic Process Automation	60	27
Electrical and Electronics Engineering	60	36
Electronics and Communication Engineering	60	11

Result Analysis

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2019 Admission	CE	47	20	7	27	57.45
	CS	42	18	6	24	57.14
	EC	9	2	0	2	22.47
	EE	8	1	1	2	25
	ME	43	14	5	19	44.19
	Total	149	55	19	74	49.67

Placement statistics-Trainings Conducted:

BATCH	TYPE OF TRAINING
2020-24(B.Tech)	Industry Skill Training
2021-25(B.Tech)	Aptitude Training
2022-25 & 2023-26 (Diploma)	Soft skill Training

Placement Drives:

OFF/ONCAMPUS	NO: OF DRIVES	SELECTED	NO. OF OFFERS
ON CAMPUS/OFF CAMPUS	03 20	37	37

Internships:

BATCH	NATURE OF INTERNSHIP	NO: OF STUDENTS
2020-24	CSE & ECE(ICFOSS,GTECH μ Learn,),CE(PWD Division Adoor)	4
2021-25	CSE(TECHMAGHI,KELTRON,Reverttech)	41
2021-24 (Diploma)	RPA (IoT) & RE(Loom Solar)	8
2022-25 (Diploma)	ECE (IoT and Embedded systems at CE Aranmula,KELTRON),RPA(Pettabit Technologies and SMEC)RE & EEE(IIC,KELKundara,MTTC,M/S protection and automation,Loom Solar)	74

III. MANPOWER MANAGEMENT

a. Staff position as on 31-03-2024

Sl.No.	Post	Reg ular	Con tract	Adh oc	Dail y wag es	Appr entic e Trai nee	Total
1	Principal	1	0	0	0	0	1
2	Professor	0	0	0	0	0	0
3	Associate Professor	0	0	0	0	0	0
4	Assistant Professor	26	0	32	0	0	58
5	Computer Programmer	1	0	0	0	0	1
6	Workshop Superintendent	0	0	0	0	0	0
7	Instructor	4	0	0	0	0	4
8	Trade Instructor	2	0	0	0	0	2
9	Administrative Officer	0	1	0	0	0	1
10	Junior Superintendent	1	0	0	0	0	1
11	Assistant	1	0	0	3	0	4
12	Librarian	1	0	0	1	0	2
13	Library Trainee	0	0	0	1	0	1
14	Attender cum Driver	0	1	0	0	0	1
15	Peon	1	1	0	0	0	2
16	Sweeper	0	0	0	5	0	5
17	Trade Apprentice Trainee	0	0	0	0	8	8
18	Security staff	0	5	0	0	0	5
19	Lab Attender	0	0	0	2	0	2
20	Electrical Supervisor	1	0	0	0	0	1
21	Overseer	0	0	0	0	0	0
22	Assistant Engineer	0	0	0	0	0	0
23	Electrician cum plumber	0	1	0	0	0	1
24	Typist/ Clerk	0	0	0	0	0	0
25	Mechanic	0	0	0	0	0	0
	Total	37	9	33	13	8	100

IV. FACILITIES AVAILABLE

Library:

SL NO	ITEM / FACILITY	DETAILS
1	Area	400 (sqm)
2	Working time	9.00 am to 5 pm
3	Book volumes	10245(including dept & BB books)
4	Book titles	2182
5	New volumes added during 2023-24	Nil
6	National Journals (online and hard copy)	25(list sent to cape to procure)
7	International Journals/ e- journals (online & hard copy)	5 (as above) e-journals- nil

Laboratory facilities: (New facilities: Nil)

Sl. No.	Name of the Department	Name of Laboratory/Workshop
1	Computer Science and Engineering	Hardware and Network Programming Lab, Computer Programming Lab, Software Development Lab
2	Electronics & Communication Engineering	Scientific Computing Lab, Analog Integrated Electronics Lab, Logic Design lab, Microcontroller lab, Communication lab, Communication System lab, Digital signal processing lab, Power Electronics lab, Electronics Workshop
3	Electrical & Electronics Engineering	Basic Electrical Workshop, Electrical Measurements Lab, Electronics Circuits Lab, Power Electronics Lab, Digital Electronics Lab, Microprocessor Lab, Systems & Control Lab, Electrical Machines Lab, Power system lab
4	Civil Engineering	Material Testing Lab I, Surveying lab, Transportation lab, Geotechnical lab, Fluid Mechanics Lab, Civil Engineering Drafting Lab, Computer aided civil Engineering lab, Environmental lab, Material Testing Lab II, Basic Civil Workshop
5	Mechanical Engineering	Mechanical Engineering Workshop (Carpentry, Fitting, Sheet metal, Welding, Smithy, Foundry and Reassembly of Cycle), Machine tool lab-1, Machine tool lab-2, Thermal Engineering Lab

Hostel facilities (Area: 2491.17 sq.m):

The Institute has one ladies hostel with a capacity of around 120 students. The total number of inmates is 66 students. The hostel is provided with all basic facilities including a common reading room and water purifier. Adequate dining facilities are available for all hostellers. College has approved private hostels for boys.

Canteen and Cafeteria

A 2000 sq.ft wide canteen with 60 seating capacity is available. All necessary food items (no junk food) are available at concession rate to students and staff.

Building and other infrastructure facilities:

Building	Area sq.m	No. of class rooms	No. of amenity rooms	Completed/Ongoing/Pending Projects
Administrative Block	3480	6	12	Completed
Workshop Block	2238	6	2	Completed
Electrical and electronics block	2975.82	5	13	Completed
Civil Engineering Block	3582.84	5	9	Completed
Girls Hostel	2491.17	-	60	Completed

Sports facilities:

College has playgrounds for Football and Cricket, and outdoor/indoor courts for Volleyball, Shuttle badminton and Table Tennis.

Co-operative Stores:

The College Store has been functioning since 2012; A Committee of 5 members is constituted for managing the routine activities. Uniforms, ID Cards, Stationary Items, Record Books etc are provided through the store.

Transportation facility:

Seven buses are operated to different locations which include Bharanicavu, Konni, Ayoor, Anchal, Punalur, Kundara, Karicode and Kottarakara from the College.

Internet facilities/Wi-Fi Connection:

College has two internet connections, one of which is of 300 Mbps bandwidth (BSNL) and the other 100Mbps FTTH connection (KERALA VISION).

V. CO-CURRICULAR ACTIVITIES:

CELL/COMMITTEE/ ACTIVITIES	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
Consultancy projects	The department of Civil Engineering has done various material testing works such as concrete cube testing, strength testing of steel rods, tile testing, brick testing, bitumen extraction testing, soil gradation test, CBR test and water quality analysis as part of the consultancy services. A total income of about Rs:5,00,000/- was generated by doing various material testing works during the period April 2023 to March 2024. The department has also received a work order from KSCSTE- NATPAC for carrying out traffic surveys for the project "Technical Feasibility study for the installation of Traffic signals at Anchal and Pathanapuram in Kollam district" in March 2024 through KTU
R&D	CERD had approved the fund of Rs.232700/- for financial assistance to 5 student projects.
Continuing Education Cell	The agreement period between the College of Engineering Pathanapuram and the Continuing Education cell expired in 2021. Measures were taken for the renewal of agreement .
Counselling	Mrs. Aswathy R, MSW (Physical & Mental Health), Psycho Social School Counsellor ,ICDS Pathanapuram is appointed as the Counsellor and she visits the campus twice in a month. Students were found to be utilizing the facility much.
Students Council	Election conducted on 16/10/2023 in parliamentary mode as per KTU order. Chairperson – APARNA S, Vice chairperson – ASHTAMY KRISHNA A, General secretary – JISHNU C, University Union Councillor -MUHAMMED NIHAL S, Arts club secretary – ABHILASH S KUMAR, Magazine editor –NIHA FATHIMA.
Staff Club	Organized celebrations on special occasions(Onam,Xmas,Kerala Piravi etc) and competitions were conducted.
College Development Council	CDC under the Chairmanship of Honorable Minister Shri. K. B. Ganesh Kumar, and other respected members Mrs. Sunitha Rajesh Jilla Panchayath member, Smt.Sreelatha Sugathan, PTA Vice President, Principal and Faculty members were very active in addressing the matters concerned with the college development.
Anti-Ragging Committee	The committee convened meetings before the start of the semester and decided to raise awareness among senior students about activities that may be considered as ragging. An anti-ragging squad was formed to surveil every corner of the campus, and they are also tasked with weekly visits to the hostels.

Grievance & Appeal Committee	The Grievance & Appeal Committee with the Principal as Chairman, Mrs. Sheeja Vincent (AP in ECE) as the Co-Coordinator and Mr. Alish Viji Varghese (AP in Maths), all HODs and the First year coordinator as members was reconstituted to address the grievances of the students. Online and offline complaint facilities and complaint boxes were implemented for the convenience of them to lodge their grievances. Periodic meetings were conducted to review the effectiveness of the system.
National Programme on Technology Enhanced Learning(NPTEL)	Total 240 students were enrolled for NPTEL courses during this academic year.
National Service Scheme (unit 541)	Conducted 20 different programmes/celebrations including NATPAC Survey, Blood donation camp,Awareness programme on drug abuse, Quiz competitions etc

Department Association Activities:

DEPARTMENT	NUMBER OF ACTIVITIES/ PROGRAMMES CONDUCTED
Civil Engineering	FORCE CONNECT(Awareness of advancements in Civil Engineering), Digital Library,Drawing competition, Awareness programme about the importance of being a member in the Institution of Engineers, A workshop on Differential Global Positioning System (DGPS),Talk on "CAREER AFTER B-TECH".
Computer Science and Engineering	Talk on "How to begin a Start-up", Coding Competition, Technical Quiz Competition, An Orientation section on "Confidence building and Presentation skills", Project Expo.
Electronics and Communication Engineering	NIL
Electrical and Electronics Engineering	NIL
Mechanical Engineering	Auto Show and associated expos, Auto Quiz, Lathe ,Welding and Sheet metal competitions.The Society of Automotive Engineers (SAE) India college chapter inaugurated and an orientation program was conducted. Awareness programme about the importance of being a member in the Institution of Engineers,Talk on" idea to product realisation".

Parent Teachers Association:

Name	Designation
Dr. Bijukumar. R	President
Smt.Sreelatha Sugathan (Parent of Sabari- S2 CSE,Sankar-S2 CE)	Vice President
Mr.Thulaseedharan R, AP in ME	Secretary, PTA

Alumni:

Alumni Association in College of Engineering Pathanapuram contributed some amount to conduct EKA 24 techno cultural fest.

Incubation Centre/Entrepreneurship Development Centre:

An Incubation Center was established in the month of December 2019 as an annex of iCubePEC.

Start-Ups: Nil

MoU:

MoU signed with Inker Robotics ,K-DISC,ICT Academy of Kerala and sanctioned project implementation funds under One District One Idea scheme from K-DISC worth Rs.9.14Lakhs.

MoU signed with Indian Institute of Infrastructure and construction Chavara . MoU signed with NSEIT

Activities Conducted by Professional Bodies:

CELL/COMMITTEE	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
Indian Society for Technical Education (ISTE)	Currently in the process of facilitating ISTE membership enrollment for students from all branches.The initiative is scheduled to be completed by next month.
Computer Society of India (CSI)	TechCanvas -Hardware Photoshop workshop, Cyber Guard -Ethical Hacking Workshop, Tech-Forge -Machine Learning Session.
Institute of Electrical and Electronics Engineers (IEEE)	Conducted Ist Year orientation program,Web development training session,Participated in e-KITES Boot camp .
Innovation and Entrepreneurship Development Cell (IEDC)	Idea pitching competition, Innovation and entrepreneurship workshop,30 students participated in IEDC Summit 2023,Bootcamp for first years

VI. RECEIPT & EXPENDITURE (during 2022-23)

REVENUE RECEIPTS		REVENUE EXPENDITURE	
Tuition Fee		Hospital/Computer Consumables	185856
(i) Government Quota	16208150	Workshop /lab Consumables	132476
(ii) Management Quota	260000	Fee paid to AICTE,MCI	55000
(iii) NRI	1494400	Other Operating Expenses	39661
Special Fee	2271100	Salaries and Wages	46574304
Admission Fee	141250	(i) Employer’s contribution to EPF	1441615
Application Fee	600	(ii) Employer's contribution to ESI	112909
Miscellaneous Fee	37000	Gratuity and other retirement Benefits	228918
Hostel Fee	825650	Travel Allowance	8397
Interest received	19575	(i) Building (repair and maintenance)	66273
Other receipts	693806	(ii) Vehicles including Fuel Charges (repair and maintenance)	77650
Total Revenue Receipts	21951531	(iii) Others (repair and maintenance)	394384
		Rent, Rates, Taxes & Insurance	91727
		Electricity & Water Charges	829687
		Printing & Stationery	346877
		Postage & Telephone	109748.12

Advertisement	47608
Interest paid/ bank charges	4937.18
Special Festival Fee Allowance	265000
Other Expenses	228826
Total Revenue Expenditure	51247053.60

CAPITAL RECEIPTS		CAPITAL EXPENDITURE	
Contribution from Banks		Land	0.00
Grant- in- aid from State Govt. (Plan)	0.00	Building	180717
Grant-in-aid from State Govt. (Non Plan).	0.00	Machinery, Tools & Equipment	190396
Grant- in- aid from Central Govt.	0.00	Computers & Accessories	284498
Loans	0.00	Electrical Installation	342426
Sale of Assets	0.00	Furniture & Fixtures	49200
Grant RIDF	0.00	Library Books	0.00
Other Capital receipts	0.00	Magazine & Journals	3523
Total Capital Receipts	0.00	Vehicles	0.00
Other income from CAPE	45001418	Others	71514
		Capital works in progress	0.00
		Total Capital Expenditure	1122274

VII. UNIQUE ACHIEVEMENTS DURING THE YEAR 2023-24

- Ms.Sarika Anil(S8 CE) selected for Chief Minister Scholarship Award(“Vidyarthi Pratibha Puraskar- 1 lakh rupees and appreciation letter)
- Ms.Sethulakshmi(S8ECE) and Ms. Nena Mariam Reji(S4 CSE) were selected for the WIE scholarship 2024, funded by the CSR initiatives of Quest Global, which offers ₹50,000 to each student.
- Mr. Abel Mathew Simon(S8 CSE) secured second rank in GTECHµLearn 2023 student board.
- Students from S6CSE won second prize in hackathon under KTU Tech fest
- CERD had approved the fund of Rs.232700/- for financial assistance to 5 student projects.
- Organized a Techno-Cultural fest called ‘EKA’24 which was inaugurated by Mr.RishiRaj Singh IPS (Rtd) The event showcased new scientific and technological advancements and their applications.
- The publication titled "AFFLUX: Disaster Management Using Multi-Temporal Sentinel-1 Data" by Amarjith C K, Amal Satheesan, Anandhan C, Nandana R S, and Rana Surendran has been published in the Advanced Innovations in Computer Programming Languages journal, Volume 6, Issue 1 (2024).
- First runners up in KTU B Zone inter college basketball competition held at college of Engineering Perumon Kollam on 28th November 2023
- Kezia Shaji(S4CSE), Ayisha N(S4 CSE), Visakh H L (S6 MEC)got selected to represent KTU Tug of war team for participating in the South Zone Inter-University Competition.

VIII. CONCLUSION

The campus was incredibly vibrant throughout this academic year. Classes and assessments proceeded in accordance with the university's academic calendar. We organized numerous co-curricular activities, enriching the overall student experience. The exam results announced thus far have been highly encouraging, a testament to the dedication and perseverance of both faculty and students. Despite challenges, training and placement activities were efficiently managed, utilizing both online and offline modes. The commitment shown by faculty members to cover the curriculum was truly commendable. We are optimistic that our collective efforts will continue to yield positive outcomes, reflected in improved academic performance, higher admission rates, and increased placement opportunities in the years to come.