

COLLEGE OF ENGINEERING PATHANAPURAM

ANNUAL REPORT 2024-25

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: 2024-25 Council

Sl. No.	Name	Designation
1	Dr. Bijukumar. R, Principal	Chairman
2	Sri.Praveen Willson, HOD in CSE,CGPC Co-ordinator	Members
3	Smt.Sheeja Vincent, HOD in ECE	
4	Sri.Shibin D H, HOD in EEE	
5	Sri.Thulaseedharan R, HOD in ME	
6	Smt. Deepa R, HOD in CE	
7	Sri. Alish Viji Varghese, HOD in DASH	
8	Smt.Sivabala P, (Staff in charge of Women's Hostel)	
9	Mr.Abhijith Babu(S8 CSE), College Union Chairperson	
10	Mr. Jishnu C (S6 CSE), General Secretary	
11	Sri.Syamlal. T, KTU Co-ordinator	
12	Smt. Rana Surendran, IQAC Coordinator	
13	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 2024-25 was accorded by the AICTE as per Order No. F.No. South-West/1-44641525184//2025/EOA dated 03/01/2025.

University Recognition:

University affiliation to the College of Engineering Pathanapuram for the academic year 2024-25 was accorded by the APJ Abdul Kalam Technological University vide order no. KTU/A/456/2016 dated 16.07.2023

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:

2024-25												
Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	NRI	EWS		Merit	Mgt	TFW	NRI	EWS	
CE	54	3	0	3	5	65	8	0	0	0	0	8
CSE	54	3	3	3	5	68	58	0	3	0	3	64
ME	54	3	0	3	5	65	18	0	0	0	0	18
2023-24												
CE	54	3	0	3	5	65	13	5	0	0	0	18
CSE	54	3	3	3	5	68	33	6	3	0	4	46
ME	54	3	0	3	5	65	2	3	0	0	0	5
2022-23												
CE	54	3	0	3	5	65	23	0	0	2	0	25
CSE	54	3	3	3	5	68	55	0	3	3	4	65
ME	54	3	0	3	5	65	5	0	0	0	0	5

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

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
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Diploma Programs(Admission during 2024-25)

Branch	Total Sanctioned	Total Admitted
Robotic Process Automation	60	21
Electrical and Electronics Engineering	60	47
Electronics and Communication Engineering	60	10

Result Analysis

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2020 Admission	CE	50	32	5	37	74
	CS	45	26	11	37	82.2
	EC	12	7	3	10	83.3
	ME	21	9	3	12	57.14
	Total	128	74	22	96	75

Placement statistics-Trainings Conducted:

BATCH	TYPE OF TRAINING
2021-25(B.Tech)	Soft Skill Training and Technical training
2021-25(B.Tech)	Interview Skill training
2022-25& 2023-26 (Diploma)	Soft skill Training

Placement Drives:

OFF/ONCAMPUS	NO: OF DRIVES	SELECTED	NO. OF OFFERS
ON CAMPUS /OFF CAMPUS	02/23	57	89

Internships:

BATCH	NATURE OF INTERNSHIP	NO: OF STUDENTS
2021-25 (B.Tech)	CSE and CE(Q SPIDER),CSE(KSMART)	22

III. MANPOWER MANAGEMENT

a. **Staff position as on 31-03-2025**

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	Assistants	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	14	14
18	Security staff	0	5	0	0	0	5
19	Lab Attenders	0	0	0	2	0	2
20	Electrical Supervisor	0	0	0	0	0	0
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	38	9	32	12	14	105

IV. FACILITIES AVAILABLE

Library:

SL NO	ITEM / FACILITY	DETAILS
1	Area	400 (sqm)
2	Working time	9. 00 am to 4 pm
3	Book volumes	10245(including dept & BB books)
4	Book titles	2217
5	New volumes added during 2024-25	59
6	National Journals (online and hard copy)	25(list sent to cape to procure)
7	International Journals/ e- journals (online & hard copy)	e-journals-2 Subscription(ONOS and Knimbus platforms)

Laboratory facilities: (New facilities:CSE Dept has received 12 new desktop computers from CAPE)

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, Electrical Machines 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 63 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, Kollam, Ayoor, Kundara, Puthoor, Kottarakara and Piravanthoor-Alimukku-Vettithitta(Circular service) 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
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<p>Consultancy projects</p>	<p>The Department of Civil Engineering has done various material testing works such as soil gradation test, CBR test and water quality analysis, etc as part of the consultancy services. Apart from material testing, in 2024 the department also offers consultancy service in doing SPT test and the structural designing of Panayil Thodu bridge in Vettikavala block Panchayat. A SPT test was also done in the Piravanthoor panchayat related to the construction of Gas cemetery. Structural vetting was done for the retaining wall design in the soil conservation department Kollam. Traffic volume studies were done at Pathanapuram and Anchal junction for NATPAC related to the signal design. For the last financial year the turnover by doing the consultancy work was around 22 lakhs.</p>
<p>R&D</p>	<p>Two CERD-funded projects—one from the Civil Engineering department and one from the Mechanical Engineering department were sanctioned with a grant of ₹50,000 each. .</p>
<p>Continuing Education Cell</p>	<p>Measures were taken for the renewal of agreement between the College of Engineering Pathanapuram and the Continuing Education cell .</p>
<p>Counselling</p>	<p>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.</p>
<p>Students Council</p>	<p>An adhoc college union was formed as per the direction of KTU to represent BTEch students. Chairman – Abhijith Babu, Vice chairperson – Rehana Ashraf, General secretary – Abhishek S, Arts club secretary – Nesna S Mujeeb, Magazine editor – Muhammed Ijas, Lady Representative- Niranjana V P. An election conducted on 4/10/2024 for polytechnic students in parliamentary mode as per DTE order.</p>
<p>Staff Club</p>	<p>Organized celebrations on special occasions (Onam, Xmas, Kerala Piravi etc) and competitions were conducted. A one day staff tour was organised to uplift the spirits of the staff and enhance team morale.</p>
<p>College Development Council</p>	<p>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 development of the Institution.</p>
<p>Anti-Ragging Committee</p>	<p>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.</p>
<p>Grievance & Appeal Committee</p>	<p>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</p>

	grievances. Periodic meetings were conducted to review the effectiveness of the system.
NPTEL	Total 111 students were enrolled for NPTEL courses during this academic year.
National Service Scheme (unit 541)	Conducted 32 different programmes/celebrations including community activities like NATPAC Survey, Blood donation camp, Awareness programme on drug abuse, Waste management etc and campus activities like Green PEC, Campus cleaning ,Women’s day celebration etc and several orientation programmes.

Department Association Activities:

DEPARTMENT	NUMBER OF ACTIVITIES/ PROGRAMMES CONDUCTED
Civil Engineering	A career acceleration program on BIM and career prospects in the construction industry, The Perfect Blend Context (The mix design competition organized by FORCE).A construction machinery show RIGOVATE’25 was organized by Civil Engineering Department association FORCE.A site visit was conducted at the PWD bridge construction site at Pathanapuram for students. Teacher’s day celebration.
Computer Science and Engineering	Web Design Bootcamp,Two-day workshop on Mobile App Development using Flutter,Web design competition, Workshop on Introduction to AI , Association day and prize distribution to department toppers,Project Expo.
Electronics and Communication Engineering	Introduction to Ethical Hacking.
Electrical and Electronics Engineering	Robotics automation workshop,110 K V Substation Visit.
Mechanical Engineering	Punalur Auto Expo 2K25 .Student's project expo.

Parent Teachers Association:

Name	Designation
Dr. Bijukumar. R	President
Smt.Sreelatha Sugathan (Parent of Sabari- S6 CSE,Sankar-S6 CE)	Vice President
Mr.Thulaseedharan R, AP in ME	Secretary, PTA

Alumni:

Donated two AC for Academic Block Seminar Hall and donated jerseys for the college hockey team.

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 K-DISC and Indian Institute of Infrastructure and construction Chavara.

Activities Conducted by Professional Bodies:

CELL/COMMITTEE	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
Computer Society of India (CSI)	CSI organized an expert talk on Industry Trends And Career Guidance .

Institute of Engineers India(IEI)	Inauguration of IEI college chapter and Royal Charter Day Celebration 2024
Institute of Electrical and Electronics Engineers (IEEE)	Think-Her-Hack (Hackathon for Women), Embedded System Workshop,ULearn orientation , Students participated in IEEE SPS Annual meet ,Signal 3.0 and Hack for Good .Conducted first year orientation programme.Web design Boot Camp, Linkedin Insights .
Innovation and Entrepreneurship Development Cell (IEDC)	Bootcamp for first years. YOUNGSPiRE-25 Hackathon.Students participated in IEDC Summit 2024.

VI. RECEIPT & EXPENDITURE (during 2024-25)

REVENUE RECEIPTS		REVENUE EXPENDITURE	
Tuition Fee		Medical and allied expenses	0
(i) Government Quota	19769040	Hospital/Computer Consumables	97616
(ii) Management Quota	35000	Workshop /lab Consumables	141204
(iii) NRI	325000	Teaching materials	0
Special Fee	1631856	Fees paid to AICTE, MCI (Nursing)	100000
Admission Fee	171000	Dental Council, Nursing Council, etc.	
Application Fee	1200	Other Operating Expenses	55750
Miscellaneous Fee		Salaries and Wages	44842523
Hostel Fee	742000	(i) Employer’s contribution to EPF	1350661
Income from Hospital	0	(ii) Employer's contribution to ESI	107735
Interest received	15334	Gratuity and other retirement Benefits	0
Other receipts	457285	Consultation Fee	0
		Travelling Allowances	8720
		Transportation Expenses	0
		Repairs & maintenances Charges	
		(i) Building	33700
		(ii) Vehicles including Fuel Charges	84190
		(iii) Others	245321
		Total repairs and maintenance charges	363211
		Rent, Rates, Taxes & Insurance	92964
		Electricity & Water Charges	827780
		Printing & Stationery	336546
		Postage & Telephone	29329.6

		Advertisement	20060
		Legal & Professional Charges	825
		Auditor's remuneration	4000
		Security Charges	0
		Interest paid/ bank charges	1346.38
		Honorarium	91980
		Special festival Allowance	0
		Depreciation	0
		Other Expenses	229838
		University Inspection & Recognition fee	0
TOTAL REVENUE RECEIPTS	23147715.44	TOTAL REVENUE EXPENDITURE	48702088.98
CAPITAL RECEIPTS		CAPITAL EXPENDITURE	
Contribution from Banks		Land	0
Grant- in- aid from State Govt. (Plan)		Building	0
Grant-in-aid from State Govt. (Non Plan).		Machinery, Tools & Equipment	1373787
Grant- in- aid from Central Govt.		Electrical Installation	194124
Loans		Computers & Accessories	1369910
Sale of Assets		Furniture & Fixtures	822232
Grant RIDF		Library Books	1535378
Other Capital receipts		Magazine & Journals	59403
TOTAL CAPITAL RECEIPT		Vehicles	0
other income from cape	48263390	Others	324289
		Capital works in progress	0
		TOTAL CAPITAL EXPENDITURE	5679123

VII UNIQUE ACHIEVEMENTS DURING THE YEAR 2024-225

- Two student projects have been selected for CERD funding.
- Aziya A.R. graduated in 2024(CE) with an SGPA of 9.65, earning both a Minor and Honours degree under KTU. She also qualified the GATE 2025 examination.
- Kesav D K from Civil Dept.qualified for the GATE 2025 examination.
- Drupath B S from Civil Dept.qualified for the GATE 2025 examination.
- Anju P S , pass out in 2024 with SGPA 9.82 and with a KTU minor Degree
- Alina Gomez F U secured a SGPA 10 in 2024
- Two students from ME Dept. (2004 scheme)passed in the challenge course.

- The research paper “AGROFAM: A Deep Learning-Based Ecosystem for Plant Health and Smart Farming” by Alvin Thomas, Sreelekshmi, Sreelakshmi A, Sooraj R, and Nayana Chandran was awarded **Best Paper** at the 3rd ITCES, College of Engineering Perumon (March 10–11, 2025).
- InKTU B-Zone sports events, our women’s team secured second place in table tennis, won the kabaddi championship, and placed third in kho kho. The men’s team secured second in kho kho.
- Nijaz Muhammed N (S4CSE) of PEC has been selected to **represent the KTU Men's Softball Team** in the South Zone Inter-university Competition.

- Mr. Sreesh P S, Assistant Professor in Mechanical Engineering has successfully completed the AICTE sponsored QIP PG Certificate Programme on 3D Printing from IIT Palakkad.
- As part of the DISHA programme, exhibitions showcasing innovative projects were held at various locations across Kollam district.
- A carbon-neutral project at a selected site in Piravanthoor Panchayat, undertaken by S6 students under the guidance of KILA.
- **Ms.Thara R** (S4 CE) and Ms. **Nandana Raj and Ms.Amritha Preetham**(S4 CSE) were selected for the IEEE WIE scholarship which offers ₹50,000 to each student.

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.