COLLEGE OF ENGINEERING PATHANAPURAM
ANNUAL REPORT 2022-23

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 in 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 Statue: 2022-23 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	Sri. Aneesh T, staff in charge of Physical Education	
11	Mr. Shahid (S8 CE), Arts Club Secretary	
12	Mr. Jobish (S8 CSE), General Secretary	
13	Sri. Syamlal. T, KTU Co-ordinator	
	Smt. Sreedevi M G, IQAC Co-ordinator	
14	Smt. Deepa R HOD in CE	Secretary

II. ACADEMIC ACTIVITIES

AICTE Approval:

The AICTE approval of the College of Engineering Pathanapuram for the academic year 2022-23 was accorded by the AICTE as per Order No. F.No. South-West/1-10997598502/2022/EOA dated 03/07/2022.

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 28.08.2022.

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.

- Civil Engineering (60)
- Computer Science and Engineering (60)
- Mechanical Engineering (60)
- Diploma in Robotic Process Automation (60)
- Diploma in Renewable Energy (60)
- Diploma in Electronics and Communication Engineering (60)
- Diploma in Electrical and Electronics Engineering (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:

Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	NRI	EWS		Merit	Mgt	TFW	NRI	EWS	
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
2020-21												
CE	42	15	3	3	4	67	41	1	3	3	2	50
CSE	42	15	3	3	4	67	38	0	3	3	3	47
ECE	21	15	3	3	4	33	10	0	0	1	0	13
EEE	21	8	1	1	2	33	4	0	0	0	0	4
ME	42	15	3	3	4	67	20	0	0	2	0	22

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

Result Analysis

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2018 Admission	**CE**	41			23	56.1
	CS	30			10	33.33
	EC	2	1	0	1	50
	EE	9	0	1	1	11.11
	ME	39			11	28.21
	Total	**119**	**53**	**34**	**45**	**50.58**

Placement statistics:
Trainings Conducted:

BATCH	TYPE OF TRAINING
2019-23	Aptitude Training, 2 soft skill Training, TCS Specific pattern training, Interview Training, Work readiness programme (ASAP,KKEM,DWMS), Orientation session on connect carrier to campus.
2020-24	Resume and LinkedIn Profile Building, Aptitude Training,
2021-25	Corporate Etiquette, ▪Internship - Opportunities and How to grab it. ▪Communication Etiquettes and Skill building
2022-26	ESCALE- An induction Programme by ASAP
2021-24 & 2022-25 (Diploma)	ESCALE- An induction Programme by ASAP

Placement Drives:

OFF/ONCAMPUS	NO: OF DRIVES	SELECTED	NO. OF OFFERS
ON CAMPUS	01	07	07
OFFCAMPUS	31		

Internships:

BATCH	NATURE OF INTERNSHIP	NO: OF STUDENTS
2019-23	CSE(Spark Infotech),ME (HAWR Technologies)	30
2020-24	ECE (Soft Technologies, Keltron (IoT),CSE(Machine Learning,Python),CE-IIIC, ME(KELTRAC), EEE(ARC Institute of Technical Education)	105
2021-25	ME (Travancore Titanium) ,ECE(Keltron ,Kollam(IoT)	73
2021-24 (Diploma)	RPA (IoT) & RE(ANERT)	29
2022-25 (Diploma)	ECE (IoT and Embedded systems),RE & EEE(IIIC)	51

III. POWER MANAGEMENT

a. **New Appointments: Office Assistant-1**

b. **Staff position as on 31-03-2023**

Sl.No.	Post	Regular	Contract	Adhoc	Daily wages	Apprentice Trainee	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	24	0	33	0	0	57
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	4	0	0	0	0	4
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	38	9	33	13	8	101

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 2021 22	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	Foss Lab, Microprocessor Lab, Network Programming Lab, Computer Programming
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), Manufacturing technology lab-1, Thermal Engineering Lab

Hostel facilities (Area: 2491.17 sq.m):

The Institute has one ladies hostel with capacity of around 120 students. The total number of inmates is 66 students. The hostel is provided with all basic facilities including 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 play grounds for Football and Cricket, and outdoor/indoor courts for Volleyball, Shuttle badminton and Table Tennis.

Co-operative Stores:

The College Store is functioning since 2012; A Committee comprises 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 32 Mbps bandwidth (NMEICT project on optical fibre cable) and the other 100Mbps FTTH connection.

V. CO-CURRICULAR ACTIVITIES:

CELL/COMMITTEE/ ACTIVITIES	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
Consultancy projects	150 numbers of testing work on Compressive Strength of cement concrete cube, particle size distribution of fine Aggregate & Particle size analysis of soil.
R&D	CERD had approved the fund of Rs.1,98,800/- for financial assistance to 5 student project.
Continuing Education Cell	No activities were conducted during this academic year.
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 10/01/2022 in parliamentary mode as per KTU order. **Chairperson** – MANOJ M, **Vice chairperson** – LEKSHMI S, **General secretary** – JOBISH T G, **University Union Councillor**- AHAMED ROSHAN, **Arts club secretary** – SHAHID SHUKUR, **Magazine editor** – SUMAYYA S. During this Academic year elections were not announced by the KTU.
Staff Club	Organized Offline celebrations on special occasions and competitions conducted.
College Development Council	CDC under the Chairmanship of MLA, 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 has convened meetings before the start of the semester and decided to provide awareness to the senior students about the activities which may termed as ragging. An anti ragging squad was constituted for the surveillance of each and every corner of the campus. They are also deputed to visits the hostels biweekly.
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 facility and complaint box were implemented for the convenience of them to lodge their grievances. Periodic meeting were conducted to review the effectiveness of the system.
National Programme on Technology Enhanced Learning(NPTEL)	No students were enrolled for NPTEL courses during this academic year.

National Service Scheme (unit 541)	Conducted 40 different programmes/celebrations.

Department Association Activities:

DEPARTMENT	NUMBER OF ACTIVITIES/ PROGRAMMES CONDUCTED
Civil Engineering	1.software training in REVIT Architecture,1software training on REVIT and BIM 1.seminar, 1FDP Conducted
Computer Science and Engineering	1worksop on internet of things,3 expert sessions, conducted coding competition, conducted 'Quality Quiz' Competition
Electronics and Communication Engineering	1 Project Expo,1Workshop,1Alumini Interaction Program
Electrical and Electronics Engineering	Conducted Road Safety Awareness program.
Mechanical Engineering	1workshop, 1 Expert sessions,1 Technical Quiz

Parent Teachers Association:

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

Alumini:

Alumni Association in College of Engineering Pathanapuram collected an amount and purchased two LCD projectors and one printer.

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 fund under One District One Idea scheme from K-DISC worth Rs.9.14Lakhs.
MoU signed with Indian Institute of Infrastructure and construction Chavara .

Activities Conducted by Professional Bodies:

CELL/COMMITTEE	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
Indian Society for Technical Education (ISTE)	1. Two day hands on workshop on Total Station, 2. workshop on latex 3.Workshop on project proposal preparation
Institution of Electronics and Telecommunication Engineers (IETE)	1 Hands on workshop on PCB fabrication and Designing.
Computer Society of India (CSI)	1. Premiere pro an one day workshop 2.Technical quiz competition, 3.Seminar on Getting with computer.
Institute of Electrical and Electronics Engineers (IEEE)	Conducted Ist Year orientation program,10 students participated in e-KITES Boot camp at LEAD College of Management organized by EdSoc

Innovation and Entrepreneurship Development Cell (IEDC)	1. Conducted 2-day IEDC Orientation & Innovation Bootcamp for the First year (S1) B.Tech and Diploma Students. 2. Conducted YIP 5.0 Orientation & Tech-Talk on "Innovate for a cause" for B.Tech Students 3. Organized an i4e (Innovate for Environment) Idea Pitching Competition 4. One of the Project Idea Included in the MSME Cluster Innovation Plan & DPR, for the Primero & Nedumpana Apparel Parks - Apparel Cluster Kollam, to K-DISC for evaluation by EDII as part of ODOI. 5. Conducted YIP 5.0 District Departmental Workshop.

VI. RECEIPT & EXPENDITURE (during 2022-23)

REVENUE RECEIPTS		REVENUE EXPENDITURE	
Tuition Fee		Hospital/Computer Consumables	228864
(i) Government Quota	15654518	Workshop /lab Consumables	102335
(ii) Management Quota	510000	Other Operating Expenses	56669
(iii) NRI	2771400	Salaries and Wages	43997158
Special Fee	2401650	(i) Employer's contribution to EPF	1392316
Admission Fee	72500	(ii) Employer's contribution to ESI	103478
Application Fee	4200	(i) Building (repair and maintenance)	25500
Interest received	29249	(ii) Vehicles including Fuel Charges (repair and maintenance)	74396
Other receipts	2633997	(iii) Others (repair and maintenance)	301789
Total Revenue Receipts	**24077514**	Rent, Rates, Taxes & Insurance	107657
		Electricity & Water Charges	849861
		Printing & Stationery	140078
		Postage & Telephone	96185
		Advertisement	22990
		Legal & Professional Charges	10570
		Interest paid/ bank charges	2907
		Other Expenses	370796
		Total Revenue Expenditure	**47883549**

CAPITAL RECEIPTS		CAPITAL EXPENDITURE	
Contribution from Banks		Land	0.00
Grant- in- aid from State Govt.	0.00	Building	56670
(Plan)	0.00	Machinery, Tools & Equipment	422111

Grant-in-aid from State Govt.	0.00	Computers & Accessories	244673
(Non Plan).	0.00	Furniture & Fixtures	166103
Grant- in- aid from Central Govt.	0.00	Library Books	0.00
Loans	0.00	Magazine & Journals	4584
Sale of Assets	0.00	Vehicles	0.00
Grant RIDF	0.00	Others	2800
Other Capital receipts	0.00	Capital works in progress	0.00
Total Capital Receipts	**0.00**	**Total Capital Receipts**	**1229258**

VII. UNIQUE ACHIEVEMENTS DURING THE YEAR 2022-23

- Organized a Technical exhibition called 'UNARVU' and felicitated the successful students who achieved high marks in the Plus Two examination.
- KTU sponsored FDP conducted in Civil Engineering Department.
- CERD had approved the fund of Rs.**1, 98,800**/- for financial assistance to 5 student project.
- Got '**Best Project award**' to 2021-24 Batch Renewable Energy branch students in CAPEFEST SAASTRA '23.
- Organized a Techno-Cultural fest called 'EKA23'which was inaugurated by Mr. K B Ganesh Kumar. The event showcased new scientific and technological advancements and their applications.
- IEDC Nodal Officer Sreesh P S, Assistant Professor in Mechanical Engineering is nominated by KSUM to the IEDC State committee.
- One of the project 'Semi automatic machine to convert tailoring waste to floor mats' Included in the MSME Cluster Innovation Plan & DPR, for the Primero & Nedumpana Apparel Parks - Apparel Cluster Kollam, to K-DISC for evaluation by EDII as part of ODOI.
- Aagneye (S4 CSE) got selected for the final round of SUSTAINABILITY HACKATHON CHALLENGE held at EDII Ahmedabad.
- Honoured by K-DISC for submitting the highest number of ideas in YIP by an Engineering College in Kollam District.
- First runners up in (KTU-B ZONE) inter-college table tennis (women) and basket ball competition. Three students were selected inter-zone Kabaddi competition. The Football team and Kho Kho team was the 2nd runners up in KTU-B zone inter college competition.
- Kezia Shaji (First year CSE) got selection to represent KTU Women's Tug of war team to participating in the South Zone Inter University Competition.

VIII. CONCLUSION

The campus was so active during this academic year. The classes and assessments were carried out as per the academic calendar of the University. We have conducted many co-curricular activities. The exam results announced so for were very encouraging one which reflects the hard work and sustained efforts of staff and students. Training and placement activities were efficiently conducted through the online/offline mode. The efforts taken by the faculty members to complete the portions were quite admirable. We Hope that all our efforts will result in a better position through good academic results, admission rate and good placement opportunities in the forthcoming years too.

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