

COLLEGE OF ENGINEERING PATHANAPURAM

ANNUAL REPORT 2021-22

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 as per G.O. (Ms.) No. 200/2000/RD dated 30.06.2000 was allotted for setting up an Engineering College under CAPE. 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: 2021-22 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	Sri. Santhosh Raj R, HOD in EEE	
5	Sri. Thulaseedharan R, HOD in ME	
6	Smt. Deepa R, HOD in CE	
7	Sri. Sumesh U B,HOD in DASH (staff in charge of student's Hostel)	
8	Sri. Vimal S V, staff in charge of Physical Education	
9	Mr. Manoj M (S8 CSE), Students Union Chairperson	
10	Ms. Lekshmy S (S8 CE), Vice Chairperson	
11	Sri. Syamlal. T, KTU Co-ordinator	
12	Smt. Sreedevi M G, IQAC Co-ordinator	
13	Smt. Abjasree S S, CGPC 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 2021-22 was accorded by the AICTE as per Order No. F.No. South-West/1-9318885040/2021/EOA dated 14/07/2021.

University Recognition:

University affiliation to the College of Engineering Pathanapuram for the academic year 2021-22 was accorded by the APJ Abdul Kalam Technological University vides order no. KTU/A/456/2015 dated 09.08.2021.

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 and two diploma courses as per G.O. (Rt) No. 237/2021/Co-op dated 31/03/2021.

Academic Programs:

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

- Civil Engineering (60)
- Electrical and Electronics Engineering (30)
- Electronics and Communication Engineering (30)
- Computer Science and Engineering (60)
- Mechanical Engineering (60)
- Diploma in Robotic Process Automation (60)
- Diploma in Renewable Energy (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:

2019-20												
Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	NRI	EWS		Merit	Mgt	TFW	NRI	EWS	
CE	36	21	3	3	0	63	43	2	3	3	0	48
CSE	36	21	3	3	0	63	36	1	3	2	0	42
ECE	18	11	1	1	0	31	8	0	0	0	0	8
EEE	18	11	1	1	0	31	7	0	0	0	0	7
ME	36	21	3	3	0	63	34	0	0	2	0	36
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	8	1	1	2	33	10	0	0	1	0	11
EEE	21	8	1	1	2	33	4	0	0	0	0	4
ME	42	15	3	3	4	67	16	0	0	2	0	18
2021-22												
CE	42	15	3	3	4	67	23	0	1	2	1	27
CSE	42	15	3	3	4	67	42	4	3	2	2	53
ECE	21	8	1	1	2	33	3	0	0	1	0	4
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	10
Robotic Process Automation	60	22

Result Analysis

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2017	CE	58	17	25	42	72.41

Admission	CS	31	10	2	12	38.70
	EC	15	4	1	5	33.33
	EE	22	4	2	6	27.27
	ME	46	18	4	22	47.83
	Total	172	53	34	87	50.58

Placement statistics:**Trainings Conducted:**

BATCH	TYPE OF TRAINING
2018-22	Conducted 2 programs. Meet the predecessor, Aptitude training, Technical Training, Soft skill, Mock Interview and Group Discussion, training for candidates shortlisted for interview by any company & Webinar on carrier opportunities with department of Atomic Energy.
2019-23	Conducted Resume preparation workshop and Technical training by JAYS ACADEMY

Placement Drives:

OFF/ONCAMPUS	NO: OF DRIVES	SELECTED	NO. OF OFFERS
ON CAMPUS-online	60	15	22

Internships:

BATCH	NATURE OF INTERNSHIP	NO: OF STUDENTS
2018-21	GIS(Online)	3
2019-23	Spark Foundation, IoT (Offline), KEL, IPSR Solutions	13
2020-24	Bhashafunic, Android Application Development	63

III. MAN POWER MANAGEMENT

- a. New Appointments: Nil
- b. Staff position as on 31-03-2022

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	29	0	25	0	0	54
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	0	0	0	3	0	3
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	7	7

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	1	0	0	0	1
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	1	0	0	0	0	1
	Total	42	10	25	12	7	96

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 a ladies hostel with capacity of around 120 students. The hostel started functioning from 2021 November with 58 students. The hostel is provided with all basic facilities including common reading room adequate dining facilities water purifier and incinerators. College has only 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
EEE 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, Pathanapuram, 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 ACTIVITIE:

CELL/COMMITTEE/ ACTIVITIES	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
Consultancy projects	Test on Compressive Strength of cement concrete cube, particle size distribution of fine Aggregate & Particle size analysis of soil.
R&D	11 Projects proposals submitted in CERD, 2 project Proposals were submitted in UBA, the proposal for digital inclusion Service Centre for Kuriottumala Colony and Windmills and solar power generation for Kuriottumala Colony, sanctioned Rs.50000 for Hybrid Solar and Wind powered lighting systems by UBA.
Centre for Continuing Education Cell (CCE)	Completed 2 collaborative project work (Traffic survey of KSCSTE-NATPAC & Mapathon Keralam –OSM project of KSITM) in association with Industry Attachment Cell and Civil Engineering Department.
Counselling Cell	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.
Student's 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
Staff Club	Organized Offline celebrations on special occasions and competitions conducted.

College Development Committee (CDC)	CDC under the Chairmanship of Honorary MLA of Pathanapuram is very active and well focused to the comprehensive development of the Institution.
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.
Grievance & Redressal 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.
NPTEL Activities	145 students enrolled for NPTEL courses and 18 students successfully completed various NPTEL courses.
NSS Activities (unit 541)	Conducted 20 different programmes/celebrations. Prepared road connectivity Map for Local Bodies, LSGD Mapping of 8 Panchayats in Kollam and Pathanamthitta Districts were successfully completed and awarded Rs.5000/per local body & conducted 7 days Camp JWALA(Energy Management &Punarjjani)

Department Association Activities:

DEPARTMENT	NUMBER OF ACTIVITIES/ PROGRAMMES CONDUCTED
Civil Engineering	2 offline workshops & 3 webinars
Computer Science and Engineering	Expert sessions on Engineering Mechanics and System software & Discrete mathematics
Electronics and Communication Engineering	1 Hands on workshop, 1 webinar
Electrical and Electronics Engineering	2 webinars, 1 KTU sponsored FDP
Mechanical Engineering	2 webinar, 1 seminar, conducted inter department football tournament, developed a prototype of Biscuit vending Machine.

Parent Teachers Association:

Name	Designation
Dr. Bijukumar. R	President
Adv. Sajan Koshy (Sajith Sajan Koshy- S8 CSE)	Vice President
Mr.Prasanth R, AP in CSE	Secretary, PTA

Alumini:

Alumni Association in College of Engineering Pathanapuram collected an amount for financial Assistance to two meritorious students of third year.

Incubation Centre/Entrepreneurship Development Centre:

An Incubation Center was established in the month of December 2019 as an annex of iCubePEC. The prevailing COVID19 situation have made it difficult for the students to reach the campus, hence the activities during this academic year was stalled.

Start-Ups: Nil

MoU:

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

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)	Workshop on Python Programming & OOPS Concepts using Java. Session on Employability in IT Industry & Quantum Computing.
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)	Started a Robotics Interest Group named IIGOR, Conducted Online Innovators Zonal meet up, Organized YUVA BOOT CAMP, Conducted all Kerala IEDA marathon& Developed Biscuit Vending Machine.

VI. RECEIPT & EXPENDITURE for the year 2021-22

REVENUE RECEIPTS		REVENUE EXPENDITURE	
Tuition Fee		Hospital/Computer Consumables	95008.00
(i) Government Quota	14346330.00	Workshop /lab Consumables	78053.00
(ii) Management Quota	1031730.00	Other Operating Expenses	24853.00
(iii) NRI	3068500.00	Salaries and Wages	36302903.00
Special Fee	1967880.00	(i) Employer's contribution to EPF	1156291.00
Admission Fee	52750.00	(ii) Employer's contribution to ESI	77693.00
Application Fee	4800.00	(i) Building (repair and maintenance)	126535.00
Interest received	17421.00	(ii) Vehicles including Fuel Charges (repair and maintenance)	70844.00
Other receipts	328862.00	(iii) Others (repair and maintenance)	474583.00
Total Revenue Receipts	20818273.00	Rent, Rates, Taxes & Insurance	12402.00
		Electricity & Water Charges	758037.00
		Printing & Stationery	100186.00
		Postage & Telephone	93145.00
		Advertisement	16893.00
		Legal & Professional Charges	9780.00

	Interest paid/ bank charges	2453.03	
	Other Expenses	401429.00	
	Total Revenue Expenditure	39801088.03	
CAPITAL RECEIPTS		CAPITAL EXPENDITURE	
Contribution from Banks		Land	0.00
Grant- in- aid from State Govt.	0.00	Building	0.00
(Plan)	0.00	Machinery, Tools & Equipment	0.00
Grant-in-aid from State Govt.	0.00	Computers & Accessories	35867.00
(Non Plan).	0.00	Furniture & Fixtures	21000.00
Grant- in- aid from Central Govt.	0.00	Library Books	0.00
Loans	0.00	Magazine & Journals	3847.00
Sale of Assets	0.00	Vehicles	0.00
Grant RIDF	0.00	Others	0.00
Other Capital receipts	0.00	Capital works in progress	0.00
Total Capital Receipts	0.00	Total Capital Receipts	60714.00

VII. UNIQUE ACHIEVEMENTS DURING THE YEAR 2021-22

- Selected as a partner institution for **One district One idea (ODOI)** MSME cluster programme in Kollam district & K-DISC funding of Rs.9.14 lakhs sanctioned to the Principal Investigator Mr.Sreesh P.S for the implementation of the ODOI.
- Rs.50000 was sanctioned under Unnat Bharat Abhiyam scheme for Hybrid Solar and Wind powered public lighting systems for the Kuriottumala tribal roads.
- KTU sponsored FDP for Mechanical Engineering and Electrical Engineering Departments.
- Completed the construction of compound wall and gate and inaugurated by Shri. K B Ganesh Kumar, Pathanapuram on 22/11/2021.
- Completed the work of Lady's hostel and is started functioning.
- 18 students successfully completed NPTEL/SWAYAM/COURSERA online courses, during this academic year &145 students are doing NPTEL MOOC courses at present.
- Established a Robotics Club named IIGOR under IEDC
- Participated in the Young Innovator Programme (YIP) and submitted the highest number of ideas at District level.
- 3 students got selection for (KTU-B ZONE) inter-zone Kabadimens and 1 student got selection to inter zone football open selection trials.

VIII. CONCLUSION

The campus is now vibrant and active after the Covid -19 pandemic situation. We have conducted many co-curricular activities but it was a little bit difficult to conduct extra-curricular activities in the same sense due to the Covid-19 restrictions. Exams were conducted safely by keeping the protocols and directions issued by the Govt and the University. The exam results were a reward to the students and to the faculty members as College of Engineering Pathanapuram once again attained a good position in the performance table. Training and placement activities were efficiently conducted through both the online/offline mode. The efforts taken by the faculty members to attain any goals were quite admirable. We Hope that all our efforts will result in a better admission rate and good academic results in the forthcoming years too.
