COLLEGE OF ENGINEERING PATHANAPURAM
ANNUAL REPORT 2020-21

1. BRIEF HISTORY OF THE INSTITUTE

The College of Engineering Pathanapuram, one among the nine Govt. Controlled Self Financing 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.

1.1 Land and Location:

An extent of 10.4 hectare of land from the 60 hectare of land comprised in Sv. No. 688/1/1 of Piravanthoor Village under possession of Animal Husbandry Department 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.

2. ACADEMIC ACTIVITIES

2.1 AICTE Approval:

The AICTE approval of the College of Engineering Pathanapuram for the academic year 2020-21 was accorded by the AICTE as per Order No. F.No. South-West/1-7007165379/2020/EOA dated 30/04/2020.

2.2 University Recognition:

University affiliation to the College of Engineering Pathanapuram for the academic year 2020-21 was accorded by the APJ Abdul Kalam Technological University vide order No. KTU/A/456/2015 dated 02.08.2020.

2.3 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 and one additional course as per the G.O (Rt) No. 281/2017/Co-op dated 30/05/2017.

2.4 ISO certification Process

Surveillance Audit of Certification body was conducted and certificate was issued on 18.12.2020. RIR Certification Pvt Ltd has certified that the Organization Management System is functioning in accordance with the ISO 9001: 2015 standard.

2.5 Working hours:

At the beginning of the semester classes were conducted through online platform from 8.30 am to 1.30 pm. Later on the mode of teaching was switched over to offline as per KTU direction. The number of working days per week was fixed as six as per workload. The office working time is from 9.30 am to 4.30 pm on all six days except on public holidays declared by the Government.

2.6 Academic Programmes:

The College offers B Tech courses in the following Engineering Disciplines 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)

3. ADMISSION AND RESULTS

3.1 Admission during the last 3 years:

Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	NRI	EWS		Merit	Mgt	TFW	NRI	EWS	
2018-19												
CE	36	21	3	3	0	63	35	1	3	3	0	42
CSE	36	21	3	3	0	63	24	4	3	3	0	31
ECE	18	11	1	1	0	31	1	0	0	1	0	2
EEE	18	11	1	1	0	31	7	0	0	1	0	8
ME	36	21	3	3	0	63	36	1	2	0	0	39
2019-20												
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

3.2 Result Analysis (Last 3 years)

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2014 Admission	**CE**	52	27	21	48	92
	CS	27	5	19	24	88.88
	EC	30	11	12	23	76.67
	EE	29	8	5	13	44.83
	Total	**138**	**51**	**57**	**108**	**78.26**
2015 Admission	**CE**	54	39	12	51	94.44
	CS	23	14	2	16	69.6
	EC	16	10	2	15	93.75
	EE	23	19	3	22	95.65
	Total	**116**	**82**	**19**	**104**	**89.65**
2016 Admission	**CE**	57	40	12	52	92
	CS	39	14	7	21	54
	EC	20	10	2	13	65
	EE	33	14	2	16	48.5
	Total	**149**	**78**	**23**	**102**	**68.45**

3.3 Scholarship and Stipends:

SL NO	Name of Scholarship	No. of Students availing the Scholarship	Amount for each Student	Total amount
1	E-grantz Scholarship-SC/ST/OEC/OBC(H)	78	35000 (TF),11305 (SPL.FEE-1st)/5000 (SPL. FEE - Othrs), 3400 (EXAM FEE)	3170975
	E-grantz Scholarship-OBC	72	6000 (TF),1000 (SPL.FEE), 3400 (EXAM FEE)	690150
	E-grantz Scholarship-General	26	6000 (TF),1000 (SPL.FEE), 3400 (EXAM FEE)	243630
2	MCM Scholarship	Fresh- 21 Renewal - 16	25000	925000
3	Central Sector Scholarship	5	15000	75000
4	E.K. Nayanar Co-operative Professional Education Scholarship	29	15000	435000
5	South Indian Bank Scholarship	2	38400	76800

4. MAN POWER
4.1 Structure of Organisation:

PRINCIPAL

ACADEMIC DEPARTMENT

HOD

FACULTY MEMBERS (INCLUDING ADHOC)

INSTRUCTOR

TRADESMAN

APPRENTICE TRAINEE & LAB ASSISTANT

ADMINISTRATIVE DEPARTMENT

ADMINISTRATIVE OFFICER

JUNIOR SUPERINTENDENT

OFFICE STAFF

PROJECT STAFF

LIBRARY STAFF
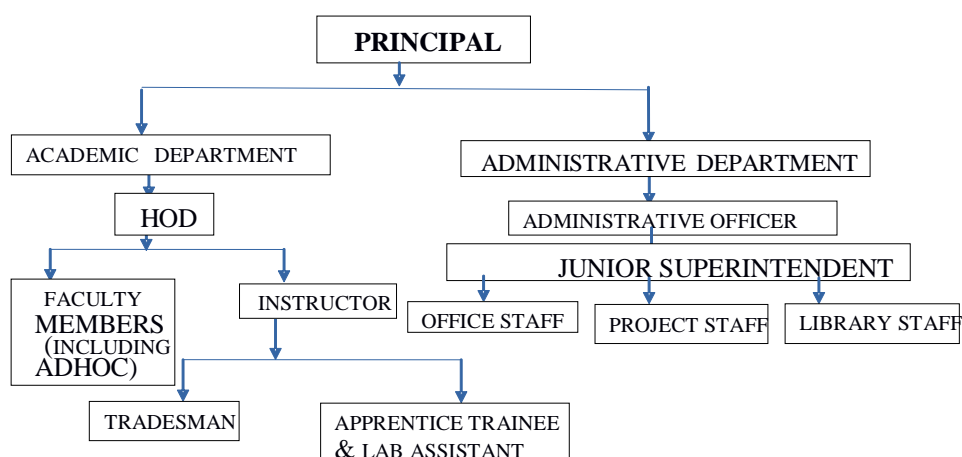
4.2 Staff position as on 31-03-2021

Sl.No.	Post	Regular	Contract	Adhoc/ Daily wages	Apprentice Trainee	Total
1	Principal	1	0	0	0	1
2	Professor	0	0	0	0	0
3	Associate Professor	0	0	0	0	0
4	Assistant Professor	30	0	21	0	51
5	Computer Programmer	1	0	0	0	1
6	Workshop Superintendent	0	0	0	0	0
7	Instructor / Trade Instructor	4	0	0	0	4
8	Tradesman	0	0	0	0	0
9	Administrative Officer	0	1	0	0	1
10	Junior Superintendent	1	0	0	0	1
11	Assistant	0	0	1	0	1
12	Librarian	1	0	1	0	2
13	Library Attender	0	0	1	0	1
14	Attender cum Driver	0	1	0	0	1
15	Peon	1	1	0	0	2
16	Sweeper	0	0	5	0	5
17	Trade Apprentice Trainee	0	0	0	10	8
18	Security staff	0	5	0	0	5
19	Lab Attender	0	0	2	0	2
20	Electrical Supervisor	1	0	0	0	1
21	Overseer	0	1	0	0	1
22	Assistant Engineer	0	1	0	0	1
23	Electrician cum plumber	0	1	0	0	1
24	Typist/ Clerk	0	0	0	0	0
25	Computer Assistant	0	0	2	0	2
	Total	40	11	33	10	94

5. FACILITIES

5.1 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 2020 21	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
8	e-books	Nil
9	Reading facilities (no of seats)	60
10	News papers	5

5.2 Laboratory facility:

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

5.3 Other facilities

SL NO	TYPE OF FACILITY	DESCRIPTION
1	Language Lab	A total of, 30 systems for students and one for teacher's interaction are available in the lab. Furthermore the language lab is equipped with audio recording facilities to carry out an efficient evaluation and feedback about the efficacy of the facility.
2	Hostel facilities (2491.17 sq.m)	Construction of ladies hostel has been completed and is ready to be occupied when the regular class work starts. College has, only private affiliated hostels for boys.
3	Canteen Facility	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.
4	Physical Education facility	College has play grounds for Football and Cricket,and outdoor/indoor courts for Volleyball, Shuttle badminton and Table Tennis.
5	Medical facility	PTA has appointed a Physician Dr. Unnikrishnan K.S for medical consultation. His service is available on all Fridays from 2 to 4 pm.
6	Counselling	Mrs. Ajeetha Gafoor is appointed as the Counsellor and she visits the campus twice in a month. Students were found to be utilizing the facility much.
7	Co-operative Store	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.
8	Transportation facility	Seven buses are operated to different locations which includes Bharanicavu, Pathanapuram, Ayoor, Anchal, Punalur, Kundara, Karicode and Kottarakara from the College.

| 9 | Internet & Wi-Fi facility | College has two internet connections, one of which is of 32 Mbps bandwidth.(NMEICT project on optical fiber cable) and the other 100Mbps FTTH connection. |
| 10 | Backup facility | 125 KVA Diesel Generator Set for general purpose and 68 KVA capacity DG's in Departments and Library. |

5.4 Building and other infrastructure details:

Building	Area sq.m	No. of class rooms	No. of amenity rooms
Administrative Block	3480	6	12
Workshop Block	2238	6	2
Electrical and electronics block	2975.82	5	13
Civil Engineering Block	3582.84	5	9
Girls Hostel	2491.17	54	12

6 CO-CURRICULAR ACTIVITIES

6.1 College Council: (2019-20 COUNCIL –Election not conducted due to COVID)

Chairman – NANDU PRASANNAN, **Vice chairman** – SHERIN K UNNI, **General secretary** – RAHUL. R, **Joint Secretary** – NANDANA SATHEESAN, **Arts club secretary** – ANAND. M, **General captain sports** – AJAI THOMAS, **Magazine editor** – AKSHAY .VS

7.ACTIVITIES OF DEPARTMENTS

SL NO	DEPARTMENT	NUMBER OF ACTIVITIES/ PROGRAMMES CONDUCTED
1	Civil Engineering	22 Webinars
2	Computer Science and Engineering	6 Webinars
3	Electronics and Communication Engineering	1 Webinar
4	Electrical and Electronics Engineering	1 certification course
5	Mechanical Engineering	3 Webinars

8.AWARDS/FUNDING/OTHER DETAILS OF DEPARTMENTS

SL NO	DEPARTMENT	
1	Civil Engineering	KSCSTE Funding for 4 projects (Rs. 10000 each).Faculty members attended 27 FDPs. 4 students were qualified for GATE 21
2	Computer Science and Engineering	26 FDPs were attended by faculty members.
3	Electronics and Communication Engineering	11 FDPs were attended by the faculty members.
4	Electrical and Electronics Engineering	12 FDPs were attended by the faculty members. One sponsored FDP was sanctioned by KTU
5	Mechanical Engineering	Faculty members attended 18 FDPs. UBA funding of 1 lakh for rural development project. One FDP was sanctioned from KTU One student was qualified for GATE21.

9. ACTIVITIES CONDUCTED BY VARIOUS CELLS AND COMMITTEES

SL NO	CELL/COMMITTEE	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
1	National Service Scheme (unit 541)	40 different programmes/celebrations.
2	Unnat Bharat Abhiyan	3 WEBINARS. Small size wind turbine for street lighting project for tribal area recommended for funding of Rs l lakh from UBA
3	Innovation and Entrepreneurship Development Cell	Conducted IEDC Zonal meet up, IEDC Summit 2020 precursor, 2 Webinars. Fabricated and installed Pedal Operated Sanitizer Dispenser.
4	Continuing Education Cell	4 online programmes

10.PARENT TEACHERS ASSOCIATION

Sl. No.	Name	Designation
1	Dr. Bijukumar. R	President
2	Adv. Sajan Koshy (Sajith Sajan Koshy- S4 CSE)	Vice President
3	Mrs. Smrithi V, AP in ECE	Secretary, PTA

PTA plays an important role in the various activities associated with the College. Apart from operating the college buses, it also provides financial assistance to various student activities & programs and also funded in the construction of a compound wall near the main gate.

11. CAREER GUIDANCE AND PLACEMENT CELL

11.1 Trainings Conducted:

SL NO:	BATCH	TYPE OF TRAINING
1	2017-21	Aptitude training, Technical (emphasis on CTS and TCS pattern), Soft skill, Interview and Group Discussion training. Infosys Specific training, Peer level interview training for candidates shortlisted for interview by any company etc.
2	2018-22	Career guidance
3	2019-23	Career guidance

11.2 Placement Drives:

OFF/ONCAMPUS	NO: OF DRIVES	SELECTED	NO. OF OFFERS
ON CAMPUS	1	15	17
OFF CAMPUS -online	27		

11.3 Interships:

BATCH	NATURE OF INTERNSHIP	NO: OF STUDENTS
2017-21	INDUSTRY/ONLINE	1

12. STUDENT START-UPs

Start-up Name	CEO	Period of incubation
Abeyantrix Innovatives	Mr. Arundev	2018-2021

13. ACTIVITIES CONDUCTED BY PROFESSIONAL BODIES

SL NO	CELL/COMMITTEE	NUMBER OF ACTIVITIES / PROGRAMMES CONDUCTED
1	Indian Society for Technical Education (ISTE)	1 online workshop, 3 webinars. Published a Newsletter.
2	Institution of Electronics and Telecommunication Engineers (IETE)	1 Hands on workshop and 1 webinar. Donated computer to EW students. Published newsletter. Students won first round IETE quiz conducted by RTTC Kaimanom.
3	Computer Society of India (CSI)	5 webinars conducted.
4	Institute of Electrical and Electronics Engineers (IEEE)	1 webinar.

14. ACTIVITIES OF VARIOUS COMMITTEES IN THE COLLEGE

Si No	COMMITTEE	DESCRIPTION
1	College Development Council	CDC under the Chairmanship of MLA, Shri. K. B. Ganesh Kumar, and other respected members Sri.Venu Gopal Vice President, Jilla Panchayath, Sri. K. Adv. Sajan Koshy, PTA Vice President, Principal and Faculty members were very active in addressing the matters concerned with the college development.
2	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.
3	Grievance & Appeal Committee	The Grievance & Appeal Committee with the Principal as Chairman, Mrs. Namboothiri Radhika Krishnan (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 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.

4	IQAC	IQAC was formed with Principal as chairperson, Syamlal. T, AP in ME as coordinator and constituted with additional members as per AICTE norms. Conducted one session on CO attainment for faculties. Expert session conducted for newly admitted first year and LET students.
5	Disciplinary Committee	Disciplinary action committee is monitoring the overall discipline and examinations under the chairmanship of Mr. Thulaseedharan.R, HOD in ME.
6	Women's Forum	Webinar and Expert session on women empowerment were conducted. Arranged Counselling session by Smt. Navamisree, Psycho Social Counsellor, ICDS Pathanapuram for girl students.
7	Alumini Association	Conducted 6 webinars and an online Alumini meet. Alumni association College of Engineering Pathanapuram distributed financial assistance of RS 20000/- each to two meritorious students of third year.
8	Staff Club, Eco Club	Online celebrations on special occasions and online competitions conducted.

15.RECEIPT & EXPENDITURE

REVENUE RECEIPTS		REVENUE EXPENDITURE	
Tuition Fee		Hospital/Computer Consumables	12370.00
(i) Government Quota	16219180.00	Workshop /lab Consumables	4990.00
(ii) Management Quota	2960000.00	Other Operating Expenses	218910.00
(iii) NRI	3369980.00	Salaries and Wages	36253697.00
Special Fee	2936056.00	(i) Employer's contribution to EPF	1240812.00
Admission Fee	59750.00	(ii) Employer's contribution to ESI	80770.00
Application Fee	600.00	(i) Building (repair and maintenance)	36651.00
Interest received	27148.00	(ii) Vehicles including Fuel Charges (repair and maintenance)	86681.00
Other receipts	455924.00	(iii) Others (repair and maintenance)	375426.00
Total Revenue Receipts	**26028638.00**	Rent, Rates, Taxes & Insurance	67328.00
		Electricity & Water Charges	701143.00
		Printing & Stationery	9263.00
		Postage & Telephone	92952.00
		Advertisement	57707.00
		Legal & Professional Charges	24375.00
		Interest paid/ bank charges	3075.03
		Other Expenses	634968.00
		Total Revenue Expenditure	**39901118.03**

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	171214.00
Grant-in-aid from State Govt.	0.00	Computers & Accessories	91500.00
(Non Plan).	0.00	Furniture & Fixtures	97300.00
Grant- in- aid from Central Govt.	0.00	Library Books	0.00
Loans	0.00	Magazine & Journals	0.00
Sale of Assets	0.00	Vehicles	0.00
Grant RIDF	0.00	Others	1300.00
Other Capital receipts	0.00	Capital works in progress	0.00
Total Capital Receipts	**0.00**	**Total Capital Receipts**	**361314.00**

17. PHOTO GALLARY

18.UNIQUE ACHIEVEMENT DURING THE YEAR

- ISO 9001: 2015certification extended one more year.
- KSCSTE funding of Rs. 10000 was obtained for four Civil Engineering student batches.
- Rs. One lakh was sanctioned under Unnat Bharat Abhiyam scheme for the proposal submitted by Mechanical Engineering Department on "Compact Wind-Solar Hybrid package for Street lighting" project at tribal colony.
- One Mechanical Engineering student and four Civil Engineering students were qualified for GATE 2021 exam.
- KTU sponsored FDP for Mechanical Engineering and Electrical Engineering Departments.
- Got financial support from MLA fund of Shri. K B Ganesh Kumar, Pathanapuram for constructing main gate for Rs. 15 Lakhs. Completed the construction of compound wall and gate.
- Completed the work of Lady's hostel and is now ready to occupy.
- 20 students successfully completed NPTEL/SWAYAM/COURSERA online courses during the lockdown period.
- 48 students from Civil Engineering, 42 students from Computer Science & Engineering department are doing NPTEL MOOC courses at present.

19. CONCLUSION

The campus was so active till the lockdown was announced. There upon the classes and assessments were carried out through online means as per the directions of KTU and Govt. We have conducted many co-curricular activities but it was a little bit difficult to conduct extra-curricular activities in the same sense. Exams were conducted safely by keeping the protocols and directions issued by the Govt and the University. The time allotted for contact classes were utilized for a quick revision of the portions taught in online mode and also for the completion & evaluation of the lab classes. The exam results announced so for were a relief 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 the online 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 admission rate and good academic results in the forthcoming years.

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