



# COLLEGE OF ENGINEERING PERUMON

(Under the Co-operative Academy of Professional Education, Thiruvananthapuram)

## ANNUAL REPORT 2018-19

### I. BRIEF HISTORY OF THE COLLEGE

The College of Engineering Perumon was started in the year 2000 as a self-financing engineering college under Co-operative Academy of Professional Education (Kerala) Society, which is promoted by the Co-operation Department of the Govt. of Kerala. This college was established on 25 acres of the land donated by the Govt. of Kerala. The foundation stone was laid in 2000 by Sri. E.K.Nayanar, Chief Minister of Kerala. Initially the college was functioned in temporary buildings at Kundara. Within two years, construction of the buildings was completed and regular work was shifted to the present campus. The former Minister for Co-operation, Sri.M.V.Raghavan inaugurated the college buildings in Feb 2004.

The College is first affiliated to the Cochin University of Science and Technology and now to the Kerala Technological University (KTU) and is approved by the All India Council for Technical Education (AICTE), Delhi for conducting its B.Tech and M.Tech courses in five disciplines. An expert team conducted on- site evaluation of the ECE and EEE programs from 16 to 18 November 2018. The department of ECE and EEE got accredited by National Board of Accreditation for the academic years 2018-19 to 2020-21 up to 30-06-2021. Right from the first passed out batch (2004), the college has been rated high for its academic excellence among the various colleges under university. The institution has a Training & Placement Cell (TPC) which dedicates itself to help students to develop their personality and establish their careers. The activities of TPC include preparing the students to face Competitive Examinations and Interviews through intensive training. TPC is constantly in touch with companies and offers all facilities for conducting recruitment. 23-students of this College have been placed in leading Multi-National Companies like INFOSYS, WIPRO etc. during the year 2017. This college has been selected for the implementation of the Technical Education Quality Improvement Programme (TEQIP- Phase II) among the 19 selected colleges in the state and it was successfully completed. The college library is well equipped with RFID based library security system for round the clock protection of the library books which is the First Engineering college library to have such facilities. Out of the 14 passed out batches so far the college has secured 58 University Ranks and almost all of the passed out students have got placement and the majority of which has through the Training and Placement Unit of the college. Leading media of our state has also rated the academic excellence of our college as high based on their surveys. Thus CEP is a choice of top rank holders in the common entrance examination.

### Land and Location

Government allotted 25 acres of land owned by the Kerala Special Refractory's Ltd at Perumon in Panayam Village on the banks of the Ashtamudi Lake, an ideal place for setting up an Engineering College and allowed to take its advance possession as per G O (MS) No.

80/2000/ID dated 24/06/2000. It is located 12 KM away from Kollam KSRTC Bus stand and 13 KM from Kollam Railway Station on the Kollam –Perumon Road via NH 47. The nearest Railway Station is Perinad, at 2 KM distance from the campus.

### **College Development Council**

The general administration of the college is by the Principal subject to the control of the Director, CAPE. The members of the college staff also participate in the general body is empowered to consider the report on any matter concerning accommodation, courses of instruction, rules of discipline etc. referred to it by the Principal. However, the council shall not interfere in any manner with the general administration of the college, which is invested with the Principal. The College Development Council consists of the Principal as the chairman and the following staff as members. 1. All Heads of the Departments (ECE, EEE, CSE, IT, ME, Applied Science, CE/Projects). 2. Senior-most faculty member next to the Head from the main engineering departments (ECE, EEE, CSE, IT & ME). 3. Staff member in charge of the College Union 4. Convenor of the Students Grievance Redressal Cell. 5. Administrative officer. 6. Secretary, PTA. 7. Representative from the non-teaching staff, other than the office staff.

## **II. ACADEMIC PROGRAMMES**

### **AICTE Approval**

This institution has been originally recognized by the AICTE as per letter No.F-770-54-228(E)/CET/2000 dated 25.10.2000. Every year proposal for extension of approval will be submitted to AICTE. The approval for extension for the academic year 2016-17 has been obtained as per the AICTE letter F. No. South-West/1-3329157062/2017/EOA dated 10-Apr-2017, for conducting courses in 5 branches in UG Level and one course in PG level.

### **University Recognition**

Provisional recognition to the College of Engineering Perumon was accorded by the CUSAT as per their order No. AC.C3/1535/2001 dated 18/06/01, for the conduct of B. Tech. Degree Courses in Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Information Technology and Mechanical Engineering with 60 seats for each branch. The College is presently affiliated to APJ Abdul Kalam Technological University. The approval for extension for the academic year 2017-18 has been obtained as per the Letter No. KTU/A/456/2015 dated 15.05.2017, for conducting courses in 5 branches in UG Level and one course in PG level.

Subsequently the enhancement of the intake in the ECE branch from 60 to 120 from the academic year 2004-05 was issued by the University. For Mechanical Engineering provisional sanction was accorded by CUSAT for intake of 60 students from 2011-12 academic year onwards and 18 seats in M.Tech course also.

## NBA Accreditation

An expert team conducted on- site evaluation of the ECE and EEE programs from 16 to 18 November 2018. The department of ECE and EEE got accredited by National Board of Accreditation for the academic years 2018-19 to 2020-21 up to 30-06-2021.

## Govt. Sanction

Govt. has accorded sanction for starting B.Tech Degree course in CSE, ECE, EEE and IT with 60 seats each as per GO (MS) no. 134/2000/H Edn dt.18/08/00. During 2004-05 the intake in Electronics & Communication Engineering branch has been increased to 120 per year from 60. As per the order No.GO( MS ) No.228/11/H.Edn dt.15.09.2011 B.Tech in Mechanical Engineering (60 seats) and M.Tech in Computer and Information Science (18 seats) were also started during the Academic year 2011-12.

## Academic Programmes

The college offers B. Tech Degree Course in the following branches

- |  |   |           |
|--|---|-----------|
| 1. Computer Science and Engineering        | - | 60 seats  |
| 2. Electronics & Communication Engineering | - | 120 seats |
| 3. Electrical & Electronics Engineering    | - | 60 seats  |
| 4. Information Technology                  | - | 60 seats  |
| 5. Mechanical Engineering                  | - | 60seats   |

The college offers M.Tech Degree Course

- |                                   |   |          |
|-----------------------------------|---|----------|
| 1. Computer & Information Science | - | 18 seats |
|-----------------------------------|---|----------|

## Working hours

Classes are from 9 A.M to 4 P.M. The students have a 5 day week as per curricula prescribed by KTU. Academic staff also has 5 working days per week .The office was functioning on all week days except Sundays & public holidays declared by the Govt. (9AM to 4 PM with one hour lunch break).

### 1 .Admission during the last 3 years:

2015-16										
Branch	Sanctioned				Total sanctioned	Admitted				Total Admitted
	Merit	Mgt	TFW	Reservati on		Merit	Mgt	TFW	Reservati on	
ME	30	21	3		60	28	21	3		52
ECE	60	42	6		120	58	9	6		73

CSE	30	21	3		60	30	18	3		51
IT	30	21	3		60	11	1	3		15
EEE	30	21	3		60	30	20	3		53
					360					244

2016-17										
Branch	Sanctioned				Total sanctioned	Admitted				
	Merit	Mgt	TFW	Reservati on		Merit	Mgt	TFW	Reservati on	Total Admitted
ME	30	21	3		60	30	21	3		54
ECE	60	42	6		120	60	14	6		80
CSE	30	21	3		60	30	21	3		54
IT	30	21	3		60	26	5	3		34
EEE	30	21	3		60	29	24	3		56
					360					278

2017-18										
Branch	Sanctioned				Total sanctioned	Admitted				
	Merit	Mgt	TFW	Reservati on		Merit	Mgt	TFW	Reservati on	Total Admitted
ME	36	19	3	2	60	35	18	3	2	58
ECE	72	38	6	4	120	44	1	6	1	52
CSE	36	19	3	2	60	33	8	3	1	45
IT	36	19	3	2	60	10	-	3	-	13
EEE	36	19	3	2	60	31	11	3	2	47
					360					215

**2. Total number of students admitted in the current academic year 2018-19:**

2018-19										
Branch	Sanctioned				Total sanctioned	Admitted				
	Merit	Mgt	TFW	Reservati on		Merit	Mgt	TFW	Reservati on	Total Admitted
ME	36	19	3	2	60	39	16		2	57

ECE	54	29	4	3	90	40	1			41
CSE	36	19	3	2	60	38	12		1	51
IT	30				30	9				9
EEE	36	19	3	2	60	36	2			38
					300					196

\*Tuition Fee waiver is not approved from Commissioner of Entrance Examinations. So this count is added to Merit seat

### 3. Scholarship and Stipend:

Name of Scholarship	No.of Students availing the Scholarship	Amount for each Student	Total Amount
E-Grantz Scholarship	212	9400	1992800
MCM Scholarship	85	25000	2125000
Central Sector Scholarship	24	10000	240000

### M.Tech Admissions 2018

Branch	Sanctioned intake	Candidates admitted		
		Merit	Sponsored	Total
M.Tech CS&IT	18	11	-	11

## Result Analysis

### ECE

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2012 Admission	ECE	127	63	33	96	75.6
	CSE	65	38	12	50	76.9
	IT	34	19	10	29	85
	EEE	64	23	27	50	78.12
	M.E	69	22	6	28	40.57
	<b>Total</b>					
2013 Admission	ECE	107	41	20	61	57.01
	CSE	52	22	12	34	65.38
	IT	26	3	6	9	34.6
	EEE	62	18	24	48	77.41
	ME	69	35	16	51	73.91
	<b>Total</b>					
2014 Admission	ECE	113	35	30	65	57.52
	CSE	58	15	9	24	41.37
	IT	21	9	3	11	52.38
	EEE	67	24	15	39	58.21
	ME	68	37	16	53	77.94
	<b>Total</b>					

### 1.Placement Status for the Current Academic year (18-19)

Sl.No.	Name of Student	Branch	Company
1	Mridula S	CSE	Infosys
2	S V Greeshma	CSE	Infosys
3	Vishnu R Nair	CSE	Infosys
4	Arun Raj	CSE	Infosys
5	Abey Terrence Antony	CSE	Infosys
6	Aiswarya B K	CSE	Infosys
7	Princy K Saji	CSE	Infosys
8	Raji S Raju	CSE	Infosys
9	Rohini Raj	CSE	Infosys
10	Shahanayasmin N	CSE	Infosys
11	Sreelekshmi Pillai	CSE	Infosys
12	Suman Sameer	CSE	Infosys
13	Nandu Raj R	ECE	Infosys
14	Sandeep S	ECE	Infosys
15	Parvathy S	ECE	Infosys

16	Ashina S Kumar	ECE	Infosys
17	Lekshmi R Kumar	ECE	Infosys
18	Anjali Ann Thomas	ECE	Infosys
19	Rubin Sulthana Feroze B F	ECE	Infosys
20	Asha Mariam Roy	ECE	Infosys
21	Anandhu Sekhar	ECE	Infosys
22	Aswin S	EEE	Infosys
23	Anakha Raj	EEE	Infosys
24	Buby Babu	EEE	Infosys
25	P B Lekshmi	EEE	Infosys
26	Subin Joseph N	EEE	Infosys
27	Alfia S Harish	EEE	Infosys
28	Muneera Mol M V	EEE	Infosys
29	Lekshmi C Senan	EEE	Infosys
30	Shahana K	EEE	Infosys
31	Sreelekshmi J	EEE	Infosys
32	Aswathy M	IT	Infosys
33	Vipin S George	IT	Infosys
34	Athira Susan Andrews	IT	Infosys
35	Ajmal N	ME	Infosys
36	Amal Raj A	ME	Infosys
37	Sajin Varghese	ME	Infosys
38	Sarah S Geevarghese	ME	Infosys
39	Ligesh L S	ME	Infosys
40	Kiran G	ME	Infosys
41	Steve Armstrong	ME	Infosys
42	Raripriya S Pillai	M Tech	Infosys
43	Saranya Sasidharan	M Tech	Infosys
44	Sarah S Geevarghese	ME	MITSOGO
45	Kannan S Nair	ME	Wipro
46	Sarath Babu	EE	Galore Networks
47	Harshana A	ECE	FACE
48	S Sreelekshmi	EE	FACE
49	Ashna M Johnson	EE	FACE
50	Al Hashim	EE	FACE
51	Karthika Jayaram	ECE	FACE
52	Swathi S Kumar	EEE	Amazon
53	Ajmal N	ME	Federal Bank
54	Vipin S George	IT	Federal Bank
55	S Sneha	CS	UST Global
56	Nandini A	CS	UST Global
57	Anakha A S	CS	UST Global
58	Aiswarya Bk	CS	UST Global
59	Sahana S	CS	UST Global
60	Ann Thomas	CS	UST Global

61	Vidhya A V	EEE	UST Global
62	Lekshmi C Senan	EEE	UST Global
63	Irfan Rabeeh	EEE	UST Global
64	Nazim Nazar	EEE	UST Global
65	M Rakhi Manoj	ECE	UST Global
66	Jayasree M	ECE	UST Global
67	Mary Joseph	ECE	UST Global
68	Neenu Elsa Ninan	IT	UST Global
69	Sooraj S Kumar	ECE	UST Global
70	Vignesh S M	ECE	UST Global
71	Joselin Johnson	ECE	UST Global
Total Students placed : <b>66</b>		Total offer received : <b>71</b>	

Result awaiting-16 students—ibs

## 2. List of Companies visited:( during 18-19)

Sl.No	Company Name	On/Off Campus
1	Infosys	On Campus
2	Quest Global	On Campus
3	Mitsogo	On Campus
4	Galore Networks	Off Campus
5	Wipro	Off Campus
6	FACE	On Campus
7	Amazon	Off Campus
8	Ibs	Off Campus
9	Federal Bank	Off Campus
10	Speridian	Off Campus
11	Mbit	Off Campus
12	Gbox	Off Campus
13	Poornam	Off Campus
14	Hexaware Technologies	Off Campus
15	Litmus 7	Off Campus
16	Byjus	Off Campus
17	Support Sages	Off Campus
18	MPhasis	Off Campus
19	Navigant	Off Campus
20	Oppo	Off Campus
21	Neudesic	Off Campus
22	Say One Technologies	Off Campus
23	Reizent	Off Campus(drive waiting)
24	E&Y	On Campus
25	Innoval Digital	Off Campus(drive waiting)
26	Orion	Off Campus
27	Triassic Solutions	Off Campus
28	Experion	Off Campus



29	Muzuris Softech	Off Campus
30	Pivot Systems	Off Campus
31	Ubix Systems	Off Campus
32	Cameron	Off Campus
33	RobertBosch	Off Campus
34	Whirl Data Science	Off Campus
35	PIT Solutions	Off Campus
36	UST	Off Campus
37	ECSF	Off Campus(On May 10 <sup>th</sup> )

### 3. Training & Placement activities: (during 18-19)

#### I TRAINING PROGRAMS

Sl .no.	Training	Date	Remarks
1	Technical training Phase-I: EEE & ECB	09th July 2018 & 10th July 2018	Internal faculty, Sri.Sidhik A, Asst. Prof. in IT
2	Technical training Phase-I: ME & IT	12th July 2018 & 13-7-2018	Internal faculty, Sri.Sidhik A, Asst. Prof. in IT
3	Technical training Phase-I: CS & ECA	16th July 2018& 17/7/2018	Internal faculty, Sri.Sidhik A, Asst. Prof. in IT
4	Aptitude Practice for 2015-2019 batch students starts	16th July 2018	Continuing on activity hours
5	General orientation programme Phase I to S7 all Batches	6th August 2018	Trainer _Career launcher
6	Preassessment test to S7 all Batches	6th August 2018	Trainer _Career launcher
7	Soft skill training to all S7 batches	7th and 8th August 2018	Trainer _Career launcher
8	General orientation programme Phase II to S7 all Batches	4th September 2018	Trainer _Career launcher
9	Soft skill training to all S7 batches	5th and 6th September 2018	Trainer _Career launcher
10	Aptitude training for 2015-2019 batch - registered candidates	30th Septmeber	Intenal Faculty ,Sri.Jasim Jalaludeen, AP in ECE

11	Aptitude training for 2015-2019 batch - registered candidates	30th Septmeber and 2nd October 2018	Intenal Faculty ,Sri.Jasim Jalaludeen, Asst. Prof. in ECE
12	Aptitude Practice for 2016-2020 batch students starts	1st October 2018	Continuing on activity hours
13	Aptitude Practice for 2017-2021 batch students starts	1st October 2018	Continuing on activity hours
14	Infosys pattern training to 2015-2019 batch	13th October to 16th October 2018	For infosys eligible students
15	Infosys preplacement talk - by Pon Balaji Sankar	19th October 2018	
16	Gate preassesment test- 2020 batch	23rd October 2018	Conducted by TIME
17	Infosys Lex platform - online training by Infosys	24th October 2018	Starts and continuing - For infosys offered students- 2019 batch
18	GD training - 2019 batch	30 <sup>th</sup> January 2019	
19	Softskill training-CS/IT 2020 batch		TEQIP fund

## II OTHER ACTIVITIES

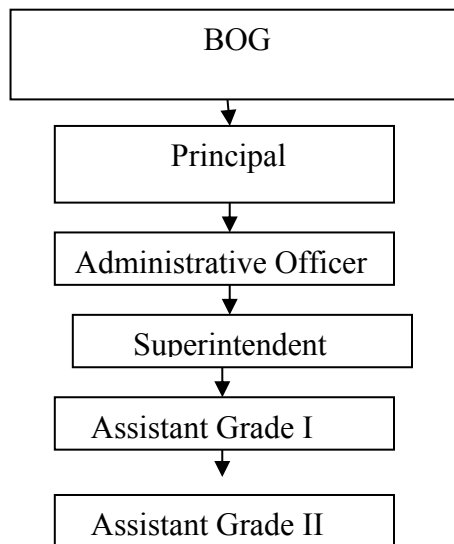
Sl.no	Activity	Date	Remarks
1	Purchased online aptitude training software	01st July 2018	Expenditure:Rs.40000/- (Includes 13 General aptitude and 8 company specific
2	Hack with Infy round-1 @ NOS lab CEP	09th July 2018	
3	First meeting of Travancore placement consortium at Trivandrum	28th July 2018	Attended by Sri Rajesh, Asst. Prof in ME
4	Financial Audit of TPC account	31st July 2018	Submitted audited report to CAPE office on 2nd August 2018

5	Invited all product companies for placement drive for 2015-2019 batch	2nd August 2018	
6	Second meeting of Travancore placement consortium at Trivandrum	20th November 2018	Attended by Smt.Ameera Beegom, Asst.Prof in CS

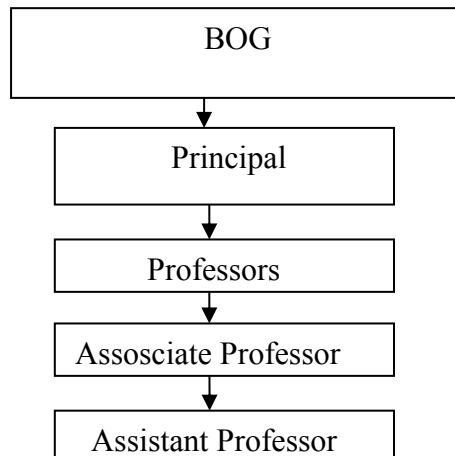
### III. MANPOWER MANAGEMENT

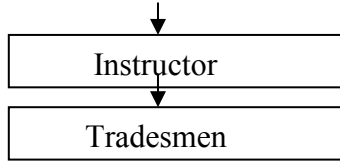
#### 1) Structure of Organisation

##### a) Administrative section



##### b) Academic section





## 2) Staff Appointment

### Principal

Dr.Z A Zoya Principal from 21.05.2012 onwards.

### Staff

In addition to the regular faculty members, contract appointments of a Senior faculty member as HOD in Applied Science and Humanities and the contract appointment in the post of Administrative Officer were extended during the period. To make up the deficiency in the faculty, Adhoc Assistant Professors were being engaged.

### Staff Position as on 28.02.2018

SL. NO	POST	REGULAR	CONTRACT	ADHOC	DAILY WAGES	APPRENTICE TRAINEE	TOTAL
1	PRINCIPAL	0	1	0	0	0	1
2	PROFESSOR	3	0	1	0	0	4
3	ASSOCIATE PROFESSOR	3	0	0	0	0	3
4	ASSISTANT PROFESSOR	47	0	24	0	0	71
5	LECTURERS	0	0	0	0	0	0
6	COMPUTER PROGRAMMER	1	0	0	0	0	1
7	WORKSHOP SUPERINTENDENT	0	0	0	0	0	0

8	INSTRUCTOR Gr.II	3	0	0	0	0	3
	Trade Instructor Gr-II	6	0	0	0	0	6
9	TRADESMAN	4	0	0	0	0	4
10	ADMINISTRATIVE OFFICER	0	1	0	0	0	1
11	SENIOR SUPERINTENDENT	0	0	0	0	0	0
12	JUNIOR SUPERINTENDENT	1	0	0	0	0	1
13	ASSISTANT Gr-I	1	0	0	0	0	1
	Assistant Gr-II	3	0	0	0	0	3
14	LIBRARIAN Gr-III	1	0	0	0	0	1
	Librarian Gr-IV	2	0	0	0	0	2
15	LIBRARY ASSISTANT	0	0	0	0	0	0
16	ATTENDER CUM DRIVER	0	0	0	0	0	0
17	PEON	1	0	0	0	0	1
18	SWEEPER	0	2	0	3	0	5
19	TECHNICIAN APPRENTICE	0	0	0	0	6	6
20	SECURITY STAFF	0	4	0	2	0	6
21	LAB ATTENDERS	0	0	0	2	0	2
22	ELECTRICAL SUPERVISOR	0	0	0	0	0	0
23	PROJECT ENGINEER	0	0	0	0	0	0
24	OVERSEER	1	0	0	0	0	1

25	ELECTRICIAN CUM PLUMBER	0	0	0	1	0	1
	TOTAL	77	8	25	8	6	124

**New appointment details (if any):**

Sl.No.	Post	Regular	Contract	Adhoc/Daily wages	Apprentice Trainee	Total
1	Assistant Professors			6		6
2	Apprentice Trainees				6	6
3	.....					
4	.....					

**. RECEIPT & EXPENDITURE**

Revenue Receipts		Revenue Expenditure	
Particulars	Amount	Particulars	Amount
Tuition Fee	40335155	Administrative Expense	1778954
Special Fee	2128890	Salaries & Allowance	64998184
Admission Fee	70500	Building	234896
Application Fee	8452	Electrical Installation	45605
Other Receipts	3667606	Others	1700458.34
<b>Total</b>	<b>46210603</b>	<b>Total</b>	<b>68758097.34</b>

CAPITAL EXPENDITURE	
Land	
Machinery, Tools & Equipment	
Computer & Accessories	70660
Furniture & Fixtures	24750

**IV. FACILITIES AVAILABLE**

## 1. Library

The Library area is 405.63 sq. meter and the library is open from 9 am to 5 p.m. There are three librarians and one helper in the college.

Sl.No	Resources Available	No. of Items Available	Total Volumes	Titles	New Volumes added during the year	Remarks
1	Books		19844	8,635	656 New Volumes added	
2	E- Journals	4 Nos				ASME, ELSVIER-SCIENCE DIRECT, IEEE, J-GATE
3	Printed Journals	41 Journals				
4	Magazines	10				
5	Newspapers	6 Nos				

The Central Library is equipped with RFID based library security system for round the clock protection of library books. Our College Library stands to be the first Indian Library to have implemented RFID Systems of M/s Bibliotheca RFID Systems AG, Switzerland, who is a world leader integrated with KOHA, an open source Library Management System. In addition, Library provides digitized information services using the latest information product, Online Public Access Catalogue (OPAC) to its members in right time. Books are classified according to Dewey Decimal Classification Scheme (DDC) and are catalogued according to Anglo American Cataloguing Rules II (AACR-II) with local variations

## 2. Laboratory Facilities

All the lab facilities have been set up for giving practical classes for the courses as per CUSAT and KTU regulations. The following full-fledged labs were functional during 2017-18.

Sl. No	Name of the Department	Sl. No	Name of Laboratory/Workshop	No. of experiments to be done using the facilities
1.	Computer Science/Information	1.	Computer Centre	15
		2.	Linux Lab	15
		3.	Object Oriented	10

	<b>Technology</b>	4.	Network Lab	15
		5.	Project Lab	15
		6.	Hardware Lab	15
2.	<b>Electronics &amp; Communication Engineering</b>	1.	Basic electronics Lab	At a time 8 set ups
				At a time 8 set ups
				At a time 10 set ups
				15 kits- 1 kit per 2 students
				28 Systems and 17 kits
		2.	Analog electronics Lab	At a time 8 set
		3.	Digital Electronics lab	At a time 8 set
		4.	Microprocessor lab	At a time 8 set
		5.	Embedded systems lab	At a time 8 set ups
				At a time 8 set ups
				At a time 10 set ups
				15 kits- 1 kit per 2 students
				28 Systems and 17 kits
		6.	Communication lab	At a time 8 set ups
				At a time 8 set ups
				At a time 10 set ups
				15 kits- 1 kit per 2 students
				28 Systems and 17 kits
		7.	Digital signal processing lab	At a time 8 set ups
				At a time 8 set ups
				At a time 10 set ups
		15 kits- 1 kit per 2 students		
		28 Systems and 17 kits		



		8.	Project lab	At a time 8 set ups
				At a time 8 set ups
				At a time 10 set ups
				15 kits- 1 kit per 2 students
				28 Systems and 17 kits
3.	<b>Electrical &amp; Electronics Engineering</b>	1.	Computer Programming lab	12
		2.	Circuits and Measurements Lab	10
		3.	Electronics Circuits Lab	12
		4.	Power Electronics Lab	14
		5.	Digital and Embedded systems Lab	15
		6.	Systems and Control lab	12
		7.	Electrical Machines Lab (I & II)	25
		8.	Electrical Workshop	9
		9.	Power System Lab	12
4.	<b>Civil Engineering</b>	1.	Strength of materials lab	10
		2.	Survey practicals	10
		3.	Transportation lab	10
		4.	Geotechnical lab	10
		5.	Building technology	10
		6.	Cad lab	12
		7.	Environmental lab	12
		8.	Construction & Structural Engineering lab	12
		9.	Basic civil workshop	12
5.	<b>Mechanical Engineering</b>	1.	Carpentry	12
		2.	Fitting	12
		3.	Sheet metal	12
		4.	Welding	12
		5.	Foundry	12

All the above laboratories are equipped with modern equipment's required at the degree level. Equipment's/Instruments required for the labs were procured in time and lab classes utilizing the above lab facilities were conducted.

### 3. Workshops

Carpentry, sheet metal, fitting, welding workshops were also functional with required tools/machines and other facilities.

#### 4. Canteen

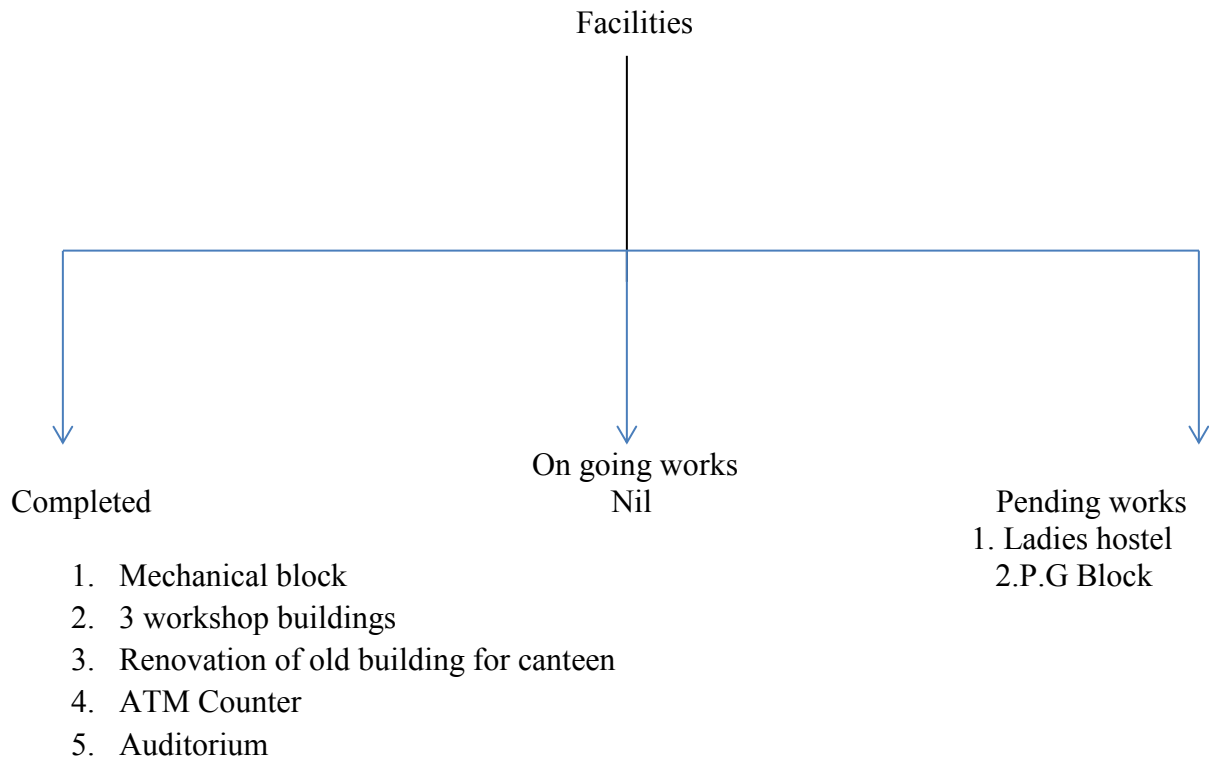
A full-fledged canteen is functioning newly constructed building for canteen

#### 5. Sports facilities

Our college allows students to participate in the various games and athletic events conducted by the Universities. Our college also conducts intramural games, athletics and union games are also conducted for all classes. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extracurricular activities.

#### 6. Building and Other Infrastructures

The infrastructural facilities in the College of Engineering Perumon Kollam as detailed below



#### 7. Hostel Facilities

Residential facilities for staff and students are envisaged in the planning of the Campus. But these facilities have yet to be built up. However, there are many private hostels run by local parties with the approval of the college. For giving approval, the college ensures maximum facilities and other security arrangements, for the residence of its students. As such, the absence of hostel owned by the college does not pose any problem for the time being.

<b>Name of Hostel</b>	<b>Area</b>	<b>Capacity</b>	<b>Actual intake</b>	<b>Other facilities available in the Hostel</b>
1.Jincy Bhavan	1200m <sup>2</sup>	13	12	
2.Mulluvila	3500m <sup>2</sup>	30	16	
3.Ponnus	1200m <sup>2</sup>	16	11	
4.Thiruvathira	2200m <sup>2</sup>	22	17	
5.Mahalekshmi	1200m <sup>2</sup>	15	14	

## **8. EPF Scheme**

The statutory scheme of Employees Provident Fund was introduced with effect from the starting of the Institution and implemented. Those who are eligible had been enrolled with effect from the date of joining duty and necessary contribution/recovery affected in accordance with the provisions of the scheme and directions of the academy as well as the Employee Provident Fund Commissioner, Kollam.

## **9. Academic Software**

College uses an Academic Software for recording Academic Activities. The web portal id is [www.webyourcampus.org](http://www.webyourcampus.org). Parents can monitor the academic data of their ward through the login username and password provided for them. The academic data includes attendance, internal marks, assignment marks, university marks etc. Parents shall contact respective class advisors / tutors for getting username and password, and also in case any difficulty in logging in the software. Teachers enter the attendance of students immediately after engaging a period. Also the marks of internal exams, assignments etc. are entered after evaluation, so that parents can view them through their log-in. From this semester onwards attendance, marks etc. of students will be sent as SMS to parents. Parents are advised to contact Class advisors / tutors in case they do not get the SMS properly.

## **10. Co-operative Society**

Co-operative Society, registered as per the Co-op Act, is functioning in the college with an objective to have a common forum for various welfare activities of the whole staff and students of the college. A store is functioning in full swing under the society, which caters the needs of the staff and the students in respect of all academic stationeries. A reprographic center is also functioning well under this society, attached to the store. Board of Directors of the Co-operative Society in 2017-18. The members consist of President, Vice-President, and Secretary along with the committee members.

## **11. Transportation Facilities**

The PTA now owns 8 college buses for managing its operation. The PTA plays a decisive role, as a supporting body, for the overall development of the college for ensuring smooth functioning of the college. At present eight buses, operated by the college PTA for the convenience of students and staff.

- The first bus operates between Puthoor & College via Pavitreswaram, Cheerangavu, Mukkada.
- The second bus operate between Kallumthazham & College via Karicode, Keralapuram, Perumpuzha, Elampalloor.
- Bus no. III operate from Bharanicavu to College via Kadapuzha, Chittumala, Perayam, Mukkada.
- Bus no. IV runs between Sankaramangalam (Chavara) & College via Santhikulangara, Ramankulangara, Kaval, Collectorate, High School Jn. and College.
- Bus no. V run between Kottarakkara & College via Neduvathoor, Ezhucone, Arumurikkada.
- Bus no. VI run between Paravoor & College via Thattamala, Madan Nada, College Jn, KSRTC Bus Stand, High School Jn.
- Bus no. VII run between Kannanalloor & College via Ayathil, Chemmamukku, Ashramam, KSRTC Stand.
- Bus no. VIII run between Parippally & College via Chathannur, Pallimukku, Reserve Camp, High School Jn.

The service of college buses are controlled by a committee which include student members also. Any complaints regarding the bus operation can be reported to the bus committee. Students and staff who are using college buses should remit the bus fee every semester, calculated based on the working days of that semester. A bus pass will be issued based on the remittance of the bus fee for both students & staff and which should be kept with them while travelling by college bus. Rules are over leafed in the bus pass. The students and staff who are using the college bus without bus pass will be punished. The decisions of the Principal will be final in this matter.

## **12. Internet Facilities**

Computer Center provides internet and intranet facilities to all users in the institute. For the network services, centre has the high end computational servers on which accounts are given to students, staff and faculty of the departments. College of Engineering Perumon has an fiber optic network over the whole campus routed and Managed by UTM appliances. The college computing facilities are also used for conducting various online tests. Online journals like IEEE, Springer etc are available in the Computer Center. The Computer Cenetr is open from 9.00 am to 4.00 pm on all working days and caters the needs of all staffs and students of the college. The institute has a 24 x 7 Wi-Fi facility in the college campus for the students and faculty members to avail internet connection at any place in the college. It provides students the facilities of e-mail, net surfing, up/ down loading of web based applications and helps them in preparing projects & seminars presentations. Users of the computer centre enjoy vistas of information superhighway through 8 mbps Broadband connectivity provided by BSNL and 100MBPS leased line

connectivity provided by National Knowledge Network via railtel. E-mail id of the college is principal@perumonec.ac.in. and the website of the College is www.perumonec.ac.in. Detailed information about the college is being updated and the site provides with details of infrastructural facilities of the College, various academic activities, placement position and such other data as may be required by the public as well as parents and students.

### **13. Language Lab**

Our college has a well-equipped and well maintained Language Lab. Hardware setup consist of a server and 25 clients all with Etail Networks Limited (ETNL) Language Lab software installed in it. ETNL is a full-service IT solutions provider that is focused at offering end-to-end innovative educational software. ETNL Language Lab is a fully computerized digital, English language learning platform. Weekly two hours classes are given to each department students. The language lab is established with the objective of giving our students some guidelines to develop their communication skills. The software and other programs arranged will help them to listen to good and Standard English so that they can improve their Listening skill as well as speaking skill. As a professional the guidelines and the programs done here will help them to improve their confidence to use English for communication purpose. At the same the students will get some experience to attend an interview and participate in Group Discussion and Debate. In short, a student who takes the session seriously will definitely be benefited in his/her skill in communication.

## **V. CO-CURRICULAR ACTIVITIES**

### **1. Scholarships & Stipend**

Lump sum grant, stipend and other Educational concessions to SC/ST/OEC and SEBC students on rolls during 2017-18 have been disbursed by the SC Development Department through e-grant scheme and through other scholarships such as MCM, Fishermen Scholarship, Central Sector Scholarship , ONGC , Meetu memorial prize for the rank holders of the 2<sup>nd</sup> and 3<sup>rd</sup> year. PTA also facilitates rank holder students every year.

### **2. Counseling and guidance cell**

As part of implementation of TEQIP phase II a Counseling and Guidance cell is constituted in college of Engineering Perumon. The Counseling and Guidance cell in the college addresses the diverse socio-economic challenges and geographic background of heterogeneous group. The cell provides proper guidance to the students of the college to improve their overall personalities and help them to meet challenges in their life. The cell consists of a coordinator and executive committee members from various departments. The cell conducted different counseling program (personal as well as group counseling) for students to find analyze and resolve the mental problems, depression, anxiety, adjustment reaction, emotional problems, stress management etc. During 2017-18 academic year, Mrs. Remya.R, Asst. Prof Department of Information Technology is the convener. The details are as given below

SL NO	TARGET AUDIENCE	NO: OF PATICIPANTS	NAME OF COUNSELOR	DATE
1	FIRST YEAR - STUDENTS AND PARENTS(for all branches as a part of orientation program)	250	Dr. Latha Raj Professional counselor Thrissur	01/08/17
2	First and second year MTech students	20	Dr. Latha Raj Professional counselor Trissur	10/10/2017
3	Personal counseling	5	Dr. Latha Raj Professional counselor Trissur	09/02/2018
4	Personal counseling	5	Dr. Latha Raj Professional counselor Trissur	12/02/2018
5	S4 ME and S4IT(counseling Talk for all)	105	Dr. Latha Raj Professional counselor Trissur	23/03/2018
6	S4 EEE and S4 CS	110	Dr. Latha Raj Professional counselor Trissur	27/03/2018

### 3. Students' Council

The College has a Students' Union, an elected body from the students with the office bearers in various posts. Its objectives are

- to enable the students in effective delivering of duties, taking responsibilities and observing the rights of citizenship,
- promote opportunities for the development of character, leadership, efficiency, knowledge and spirit of service among the students,
- to encourage sports, arts and other cultural, educational and recreational activities that are incidental and conducive to the above objectives and
- to work for the general welfare of the student community.

The term of the council is generally for one year from the date from which it assumes office or till the date of declaration of the elections to the council in the subsequent year. The college also has sectional associations in each department

#### 1. Activities conducted by Student council:18-19

Activities	Date	Inaugurated by	Brief description
College union inauguration	25/1/2018	Job Kuryan(Play Back Singer)	Chief Guest-Shri. Ajayan Nair(Ex-Indian football team Captain)

Arts festival	(5/4/19-6/4/19) 2 days	Arjun Ashok (Film Star)	Around 700 students actively participated in different events	
Sports	(11/2/19-12/2/19) 2 days	Principal Dr Z.A Zoya	Around 300 students actively participated in different events	
Fresher's day				
Magazine releasing ceremony				
Tech fest	(16/3/18-18/3/18) 3 days	T.O Suresh Kumar, A Successful Entrepreneur, Maks Pvt.Ltd	5 department in our college actively involved and around 800 students participated in different events	
.....				

#### 4. Staff Club

The Staff club is formed to facilitate positive interaction between the staff of various departments of the college. All staff are members of the club. Club is always presided by the Principal. Executive members are chosen annually by the General Body of the Staff Club. Executive Committee members consist of President, Secretary, Vice President, Treasurer followed by 15 committee members of various departments.

#### **STAFF CLUB 2018 –19**

The Staff club is formed to facilitate positive interaction between the staff of various departments of the college. All staff are members of the club. Club is always presided by the Principal. Executive members are chosen annually by the General Body of the Staff Club.

#### **Activities of 2018-19**

1 Staff club purchase the basic communities and distributed to flood relief area through Kollam collectorate on 20.08.2018 .Total expenditure of Rs **51500** . Purchasing items are attached

2. Sent off party

3. build up a basement for banyan tree .expenditure is 13000/-

4. Staff games & Athletics

5. Christmas -New year celebrations

6. One day Staff tour conducted at Konni ecotourism and Elephant training center

- 7. College staff day is planned to conduct on May Second week.
- 8. Staff club donated Rs**5000/-** for the emergency treatment of two cancer patient

**5. Anti-Ragging Committee**

Anti-Ragging Committee has been constituted in the college for preventing ragging in the campus as per the orders of the Hon.Supreme Court vide order Slp(c) Nos-24296-24299/2004 dtd 16/5/2007 and the subsequent guidelines issued by the University. The present structure of the committee is as follows:

Head of the institution ( Chairman ) with all the Head of the Departments (HoD,ME – Convener),Non-teaching staff, representatives of parents, students,civil administration, police administration, local media, NGO involved in youth activities as members.

**6. Grievances and APPEALS Committee:**

Grievances and Appeals Committee has been constituted by the Head of the Institution to address the grievances of the students and to consider their appeal on any decision made by the college. The committee consisting of at least three faculty members and chaired by a senior professor shall look into student’s grievances an appeals and give its recommendations to the Head of the Institution for action.

**7. Women’s Forum**

A women’s’ forum is functioning within the cell as per the direction of the Govt. of Kerala for taking up issues related to the women separately. It acts as a an independent body for co-coordinating various activities related to the overall welfare of the woman.

**8. National Service Scheme (NSS) Activities**

National Service Scheme (NSS) has emerged as a powerful and dynamic youth movement in the country. The NSS is acting as a catalyst to build up the right way of student’s leadership in an institution. The college has implemented the NSS. The main aim of the scheme is to provide opportunities to teachers and students for gaining valuable practical experiences of community service. The general activities include NSS meetings, classes, and NSS activities at last 2 hours of all Wednesday, Thursday.

**NSS activities: 2018-19**

<b>Name of the Activity</b>	<b>Date</b>	<b>No. of volunteers</b>
Food safety awareness	22/02/2019	48



program by Department of Health. Govt. Of Kerala		
Workshop on leadership at Motherhood charitable mission Neendakara	23/03/2019	39
Tech fest Volunteering	15/03/2019, 16/03/2019	25
Symposium activities		
Arts & Sports volunteering	06/04/2019, 07/04/2019	26

### 9. Association Activities (2018-19)

Talks, seminars and exhibitions are conducted regularly by the various department associations, as mentioned in the following section. Four associations are functioning in the college under the various departments as below:

- 1) EARNEST -The Electronics and Communication Engineering. Department Students Association named as EARNEST (Electronic Association Rendering Newly Emerging Scientific Thoughts) was formed with the intention of cultivating interest in science and technology among the students. It organizes various programs like technical seminars, paper presentations, personality development programs etc. The association has conducted various programs right from the beginning of its journey. The association conducts Industrial visits to various organizations for all the semesters. Tech Fest ADVIKA 18 EC was organized and conducted by the Department Association EARNEST on 16<sup>th</sup> & 17<sup>th</sup> February 2018. It includes technical quiz, circuit designing, tech expo- academic projects of final and prefinal year students and games. College Radio was launched on 16<sup>th</sup> February 2018. The Abstract Book 2K18 was released on 23<sup>rd</sup> February 2018.
- 2) ASCI -The Computer Science and Information Technology Department Students Association. It organizes lectures, seminars and technical talks by distinguished personalities from various streams. It also host short term courses, workshops, exhibitions, quizzes, paper presentations, code debugging, gaming and many more. Tech Fest ADVIKA 18 CS was organized and conducted by the Department Association ASCI on 16<sup>th</sup> & 17<sup>th</sup> February 2018.
- 3) DYUTHI- is a formal association of Electrical and Electronics Engg. Department of CEP, which is very much experimental in all the walks of electrical engineering. DYUTHI conducted the following events. 1) Expert session on power quality. 2) HSRPEC 3) Robotic workshop for school students 4) Release of newsletter 5) Second volume of project NIRYUH 6) Second volume of abstract book 2018 7) Technical expo VIDYUTH 30.
- 4) TRAMS -is a formal association of Mechanical Eng. Dept. conducted the following events. 1) Auto expo 2) Rifle expo 3) Workshops (AutoCAD, start-up-program, automobile evolution) 4) Quiz program 5) Expert talk 6) Project exhibition 7) Mock-drill by Kerala Fire

& Rescue Service. Tech fest ADVIKA 18 me was organized and conducted by the department association trams on 16<sup>th</sup> & 17<sup>th</sup>february 2018.

## **10. Chapters of Professional bodies**

### 1) Indian Society for Technical Education (ISTE)

Indian Society for Technical Education (ISTE) is a premier national society for teachers and students of the technical education system. The major objective of the ISTE is to assist and contribute to the production and development of top quality professional engineers and technocrats needed by our nation. This college has institutional membership of this body. A student chapter of ISTE is also functioning well in the college. This chapter is conducting different training programs, seminars, talks, etc. which would enhance the professional knowledge of the students. These programs will aid the students to get equipped with technical excellence, innovation, leadership quality, organizational skills, sharp logic etc. and to mould themselves into successful engineers.

### 2) IEEE Chapter - The motto of the Institution of Electrical and Electronics Engineers

(IEEE) USA is to create awareness on the budding engineers on the latest technological innovations. The student chapter of IEEE is functioning well in the College. The activities are as follows:

The IEEE student branch of College of Engineering Perumon was inaugurated on July 22, 2016. by Mr. Gopakumar S, Former Deputy Director VSSC & MGA Vice chairman of Information Management and IT co-ordination..

In the academic year 2017-18 the programs conducted were :a)IEEE day b) An orientation program was conducted to invite the fresher's to IEEE .c) IEEE of CEP hosted a two day workshop on 17<sup>th</sup> and 18<sup>th</sup> February 2018- "INSPIRO'18" on four different areas: IC Engine, SCADA & PLC , Quad copter and IOT. d)Election of the new office bearers were conducted on feb 21, 2018.e)A quiz program was conducted as part of science day on feb 28<sup>th</sup> ,2018 f) As part of women's day celebration IEEE of CEP organized a Talk on 'Health and Hygiene' of women by Dr. N R Reena, and on 'Challenges of Future Technology' by Dr. R. Bijukumar, HOD,ECE department,CEP.

### 3) Computer Society of India - Computer Society of India (CSI) is the first and largest body of computer professionals in India. CSI is a non-profit organization and its members are committed to the advancement of theory and practice of Computer Engineering and Technology Systems. The seed for the Computer Society of India (CSI) was first sown in the year 1965 with a handful of IT enthusiasts who were a computer user group and felt the need to organize their activities. They also wanted to share their knowledge and exchange ideas on what they felt were a fast emerging sector. Today the CSI takes pride in being the largest and most professionally managed association of and for IT professionals in India. The purposes of the Society are scientific and educational directed towards the advancement of the theory and practice of computer science &IT.

### 4) SAE-Society of Automotive Engineers India is the largest body of automobile engineers. SAEINDIA is an affiliate society of SAE international registered as an Indian nonprofit

engineering and scientific society dedicated to the advancement of mobility community in India. SAEINDIA includes engineers, executives from industries and students. Principal emphasis is placed on transport industries such as automotive, aerospace and commercial vehicles.

### **11. Continuing Education Cell**

It was formed to promote continuing education programs and currently helps the students with many online certification courses in the field of science and engineering. Its local chapter runs efficiently under the cell with a good number of students enrolled in various online courses. Recently, it has signed an MOU with the Red Hat Academy whose aim is to turn academic institutions to centers for enterprise ready talent by outfitting them with Red Hat training. It has applied for sub center registration under the Continuing education Centre, Kerala

### **12. College Gymnasium**

A healthy body keeps you dynamically fit and energizes you in all your academic and co-curricular activities. A gymnasium is functional inside the campus with adequate facilities.

### **13. Department of Physical Education**

Sports activities are an integral part of student's career. Our students are enthusiastic sportsmen with zeal and ambition to give their best performance. Our students have participated in various Games and Athletics events conducted by Kerala technical University at Zonal level. The following are some of the sports achievements by our students during previous semester. Happy to inform you that our college cricket team won the third position in KTU zone championship. Our college has an appreciative team of football, which has won Runners up in KTU zone championship. It gives me an immense pleasure to inform you that first time in history of CEP our volleyball and Kabaddi teams participated and entered in quarter finals of KTU zone championship. Another asset of our college is Kailas (S8EC), our sparkling player of kabaddi selected for Kerala Technological University team. Our football, cricket, Kabaddi, volleyball teams participated in intercollegiate tournaments and 31 students participated in KTU athletics championship.

We organized All Kerala intercollegiate football and volleyball tournaments at our college campus and in which our volleyball team entered the quarter final and football team has won runners up. On 11&12 February we conducted our college annual athletic meet at our college campus around 300 Students participated and the programme was inaugurated by Principal Dr Z A Zoya ma'am. Also we organized inter class tournaments mainly in football, volleyball and badminton. The tournament was really remarkable with the active participation of students especially the girl students. College participated in the intercollegiate university sports meet held at CUSAT, Cochin. Our students participated in various games and athletic events consisting of 100m, 4 x 100 m , 4 x 400m, 200m, 400m, 800m and 1500m, Football, Volley ball, Badminton, Cricket , Javelin throw, Shotput and Discuss throw. Our college secured a remarkable place among the other colleges.

## **14. Parent-Teacher Association**

Parent Teacher Association (PTA) is actively functioning in the college. The objectives of the association are:

1. To work for the welfare of the students and the institution.
2. To offer constructive suggestions on various issues for the smooth and successful functioning of the college.
3. To promote better participation of the parents in the various programs of the college and to establish better liaison with the teacher.
4. All parents/guardians of the students on the rolls of the college and staff members are the members of the association. It is compulsory for a parent/ guardian of a student on the rolls of the college to be a member of PTA.

The executive committee of the PTA consists of the President ( Principal), Vice President and Secretary. The PTA now owns 8 college buses for managing its operation. The PTA plays a decisive role, as a supporting body, for the overall development of the college for ensuring smooth functioning of the college.

Landscaping and gardening was done with PTA fund various herbs/plants were collected from different institutions for developing a good garden in the campus.

### **PTA Activities 2018-19**

1. At present eight buses, operated by the college PTA for the convenience of students and staff.
2. Renovation of College Conference Room
3. Construction of Information Counter
4. Renovation of College football ground
5. Flood relief activities (Rs. 50000/-)
6. Maintenance & NBA Accreditation related works (Around 5lakhs)
7. Student Management Software
8. Campus Cleaning & Beautification
9. College Canteen - Extension of kitchen (Roofing)
10. Subscription of Newspapers & Magazines College Library

## **15. Alumni Association**

Conducted Alumni meet for the academic year 2018-2019 at 10.30 am on **15<sup>th</sup> August 2018** at the Seminar Hall, Main Block, College Engineering Perumon, Kollam. Welcome speech was delivered by Mr.Subramanian S, Secretary, Alumni Executive Committee. Meeting was inaugurated by Sri.M.Mukesh MLA and Presidential talk by Dr. Z A Zoya, Principal, College of Engineering Perumon. Annual report was presented by Smt Ameera Beegom J, AP in CSE & Secretary Alumni Association. Then alumnus shared their experience and memories. Finally vote of thanks by Mr.Rekha T, AP in EEE & Alumni Executive Member.

President –Dr. Z A Zoya, Principal, College of Engineering Perumon

Chairman- Deepak S Murugesan (Alumni) & Dhanya M (AP in ECE)

Vice Chairman- Ayyapparaj (Alumni) & Sidhik A (AP in IT)

Secretary- Subramaniyan S V (Alumni) & Ameera Beegom J (AP in CSE)

Treasurer- Rekha T (AP in EEE)

## Activities

- Completed the construction of ATM counter, in loving memory of Ajay Henry, EC 2009-13. The ATM counter was Inaugurated by Sri. M.Mukesh MLA. (Sponsored by Alumni Association and EC 2009-2013 batch).
- Renovated Training & Placement Cell Room (Inaugurated by Sri. M.Mukesh MLA)
- Donated Rs.25,000/- for college ground maintenance.
- Decided to conduct next year Alumni Meet on 15<sup>th</sup> August 2019.

## **16. Entrepreneurship Development Centre**

It is functioning in the college with the intention of developing Entrepreneurship skills of the students. The cell conducts regular workshop and trainings for students on various aspects regarding start-ups, marketing, financial support and mentoring. Our college is selected for PMUVA, a scheme launched by the Ministry of skill development and entrepreneurship.

## **17. Skill development Cell**

- **Pradhan Mantri Kaushal Vikas Yojana** (Skill Development Cell, AICTE)  
AICTE is implementing the Pradhan Mantri Kaushal Vikas Yojana for Technical Institutes (PMKVY-TI). Our college has **been selected among 242 colleges in India** to offer skill training to the students. Under this scheme two programs in EEE dept. and one programme in ECE dept. were sanctioned for the students. 2 Classes have already been started.

## **18. Departmental Activities**

### **a) Electronics and Communication Engineering Department**

Department of Electronics & Communication Engineering, has over the years developed into a full-fledged department. For exploring this fast developing engineering field, to the maximum extent possible, this department has taken all measures to make available the best facilities. The academic activities of the ECE dept. for the year 2017-18 is as shown below

- FDP on advanced communication technologies and signal processing 19th – 23rd April 2018
- Surjith S AP in EC secured first rank in MTech Opto Electronic and Laser Technology.
- Best thesis Award in CUSAT of 2017 Surjith S AP in EC
- Best Paper Award in CUSAT of 2017 Surjith S AP in EC
- Project named IOT based smart waste management ,monitoring and tracking selected in innovative scheme of KSCTE-2018 ,participated in KETCON at SAHRIDYA college Thrissur guided by Dhanya M, Seena R [AP in ECE]

- Soft skill awareness Programme under IIIC, Hands on training on Image Processing, Seminar on awareness about IEEE society for freshers, Travancore HUB meet, Membership development Programme organised by IEEE and IIIC
- Nabin Nasar, Student participated in MUN conference, UNAIC.
- Nabin , Student participated in TEDXGCT

#### **Remedial classes to students**

- Solid State Devices by Unnikrishnan A S, AP in ECE, CEP
- Applied Electromagnetic Theory by Athul S, AP ECE Vellappally Nadesan College of Eng. , Mavelikara.
- Network theory by Abdul Raoof, JTO, Bsnl, Kayamkulam
- Analog Intergrated Circuits by Anu S Nair, AP in ECE, CEP

#### **Expert Lecture to students of EC**

- Electromagnetic Theory by Dr.B.Premlet Professor, MES College of Engg. Chathannoor, Kollam.
- Electronic Circuits by Dr. Gopakumar H.O.D,.TKM CE ,KOLLAM.

#### **Outstation Training attended by Faculty**

Sl.no.	Programme	Dates	Venue
1	MUN conference UNAIC	2/2/18-4/2/18	TKMCE
2	TEDXGct	18/12/17	GCT Coimbatore

#### **In-house Training attended by Faculty**

Sl.no.	Programme	Dates	Venue
1	"Workshop on NBA Accreditation with Emphasis on How to Prepare SAR"	11.01.2018-13.01.2018	CEP
2	PCB Designing and Manufacturing	2/3/2018	CEP
3	ARDUINO UNO and IOT Applications	5/3/2018	CEP

## **b) Electrical and Electronics Engineering Department**

This is a well-established department, and ever since its commencement, the students bagged top ranks in all university examinations. In order to train the students about the basic ideas of Electricity and its technological Developments. The academic activities of the EEE dept. for the year 2017-18 is as shown below

### **Events**

- 4<sup>th</sup> Department Advisory Committee meeting was held on 25.01.2018.
- Organized a workshop on “ Arduino World” for higher secondary school students .
- Organized a workshop on “ Arduino and IoT Applications” for final year students from 12/02/18 -14/02/18 under IIC & TEQUIP II Four funds.
- An MOU has signed between Department of Electrical and Electronics Engineering and CDAC , Trivandrum on 14/03/2018.
- National Conference on Future Technology in Power Control and Communication Systems-NFTPCOS’18
- Started PMKVY – Pradhan Mantri Kaushal Vikas Yojana courses
  - i) Assistant Electrician ii) Solar Panel Technician

### **Remedial classes to students**

- Analog electronic circuits by Anu s Nair, AP ECE, CEP
- Circuits and networks by Jesna Basheer AP EE, CEP

### **• Department Association activities:**

The Department has an active Students Association- **Electronic Association Rendering Newly Emerging Scientific Thoughts-** acronymed as **EARNEST**. A Bisemester News letter '**TRONANCE**' and Technical magazine '**Spectra**' were released by the association every year. Apart from that, it would organize QUIZ competitions, workshops, Expo, Paper presentation etc. In 2018-19, the activities of EARNEST were started by inaugurating a Activity room for interested students to carry out minor projects and experiments in the department. In the function the newsletter, TRONANCE V4.1 was released by Our respected Principal.

Other Activities:

- **Lecture series:**

On September and October a lecture series of two expert talks were organized by the Association. The first was handled by Er. Praveen Kumar SDE/BSNL Kundara on 07.09.18 on the topic Modern Communication Techniques. The second was handled by Dr. R. Bijukumar Prof/ECE CEP on 12.10.18 on the topic Wireless Communication recent trends.

- **Invited talk on Professional Ethics**

A motivational talk by Prof. Jnaneswar AP/MBA CET Trivandrum on the topic Professional Ethics for Engineers was conducted on 12.11.18.

- **Workshop**

Workshop on the topic ROBOCART by IIT Mumbai team was conducted on 09.03.19.

In connection with the Technical Fest on 15.03.19 to 17.03.19 Quiz competition, Paper presentation, Planetarium model, Robot show and an Exhibition by BSNL Kollam were organized by the Association.

- **Research & Development activities:**

All Faculty members and final year students were published papers on International Journal for Engineering Science and Research April volume.

A national conference on the theme Recent Trends in Electronics and Communication was organized on 2019 March 20th and 21st.

A fund by KSCSTE was awarded to Prof. Santhosh B.S and team on their work on IOT Based Mirror and CERD fund was awarded to Prof. Surjith and Team for their work on 360° Smart Helmet.

- **Start-Ups:**

Ten students from S3ECE were shown interest in Start Ups.

## **UNIQUE ACHIEVEMENT DURING THE YEAR**

- NBA Accreditation for three years.
- 5<sup>th</sup> Position in CUSAT Degree exams during 2018.
- Signed two MoU with CDAC Trivandrum and Bits Forge Kochi.



### **In-house Training attended by Faculty**

Sl.no.	Programme	Dates	Venue
1	"Workshop on NBA Accreditation with Emphasis on How to Prepare SAR"	11.01.2018-13.01.2018	CEP

### **c) Computer Science and Engineering and Information Technology Department**

This department is all set to keep pace with the latest developments in the field of computer science and engineering. It emphasizes on nurturing the potential of students and above all plays a vital role in carving out software and hardware intellectuals excelling in innovation, creativity, and quality.

The Department of Information Technology lays emphasis to elicit revolutionary software professionals so as to meet the demands of the fast changing IT field. The laboratories under this department are equipped to train the students in a view to refine their skills as per the current trends. The academic activities of the CS/IT dept. for the year 2017-18 is as shown below

#### **Events**

- AICT'18 National Conference on advances in Informatics and computing technologies 20/3/2018 -21/3/2018
- Mrs.Surya .S.RAP CS, have presented paper on International conference ICCES 2017, conducted during 19,20 october 2017.

#### **Remedial classes to students**

- Electronic Devices and Circuits by Sujith M, Logic Solutions, Ernakulam
- Discrete Mathematical Structures by Smitha R, AP in Applied Science
- Database Management Systemsby Nimmy V,AP in CSE
- Discrete Computational Structures by MiliMohan,AP in CSE
- .Logic Design by Nimmy V,AP in CSE

### **Outstation Training attended by Faculty of CS/IT**

Sl.No.	Title of training	Dept	From Date	To Date	Coordinator
1	PYTHON	CS	19/07/2017	21/07/2017	College of Engg, Kidaghoor

2	Web designing	CS	25-29/11/2018	11-15/11/2018	Technopark
3	Preparedness for accreditation by NBA	CS/IT	14/12/2017	15/12/2017	College of Engineering Thalassery

#### **In station Training attended by the faculties of CS/IT**

Sl.no.	Programme	Dates	Venue
1	"Workshop on NBA Accreditation with Emphasis on How to Prepare SAR"	11.01.2018-13.01.2018	CEP

#### **d) Mechanical Engineering Department**

This department provides sound theoretical background as well as good practical exposure to the students. It has well experienced faculty. The B.Tech course in this discipline was started in the year 2011

Sl.no	Remedial class on	Class	Taken by
1.	Dynamics of machinery	S6 ME	HAREESH, AP ME , College of Engg & Mgmt, Punnappra

#### **In-house training attended by the faculties**

SL NO	Title	Dept.	From date	To date	Coordinator
1	Three days' workshop on outcome based NBA accreditation with emphasis on how to prepare SAR	ME	11/01/2018	13/01/2018	Shamnad M

## Events

- Workshop on NBA Accreditation with Emphasis on How to Prepare SAR 11.01.2018-13.01.2018.
- Accreditation –prequalifier submitted
- Students project funded by KSCSTE
- Students project Exhibited in the inaugural function of K-DISC
- Students project won special prize at TEKON-2018
- Secured 9<sup>th</sup> rank in CUSAT B.Tech. Degree examination (2014-18 batch)
- A project entitled “360<sup>0</sup> Rotating Car” done by final year students of 2014-18 batch was selected for the exhibition conducted by Govt. of Kerala.
- Society of Automotive Engineers India (SAE) students collegiate club formed.
- KTU sponsored FDP conducted on ‘Micro-Nano Manufacturing’-10 to 12 January 2019.
- 2<sup>nd</sup> National Conference on Recent Trends in Mechanical and Civil Engineering (NCRTMCE 2019) conducted – 8 to 9 May 2019.

## VI. RECEIPT & EXPENDITURE

Revenue Receipts		Revenue Expenditure	
Particulars	Amount	Particulars	Amount
Tuition Fee	40335155	Administrative Expense	1778954
Special Fee	2128890	Salaries & Allowance	64998184
Admission Fee	70500	Building	234896
Application Fee	8452	Electrical Installation	45605
Other Receipts	3667606	Others	1700458.34
<b>Total</b>	<b>46210603</b>	<b>Total</b>	<b>68758097.34</b>

CAPITAL EXPENDITURE	
Land	
Machinery, Tools & Equipment	
Computer & Accessories	70660
Furniture & Fixtures	24750

## ACHEIVEMENTS AND ACADEMIC ACTIVITIES

### Accreditation Status

- Department of Electronics and Communication Engineering and Electrical and Electronics Engineering got accredited by NBA.



EEE department developed three Intellectual Properties(IP) using HSRPEC technology of C-DAC. And C-DAC added this IP to HSREPC library.

- RELEASE OF **NEW LETTERS** IN ALL DEPARTMENTS.
- RELEASE OF **BOOK OF PROJECTS** AND **THE BOOK OF ABSTRACTS**.



### Funded Projects

1. In EEE department 8 projects funded by CERD, KCSTE and Energy management centre.
2. In CS/IT department 2 projects are funded (Rs 69000/-) by CERD .

3. In ME department 1 project funded by KCSTE (Rs 25000/).

### **Conferences organized**

#### **NATIONAL CONFERENCE- NACETEC'19**

##### **ECE**

Department of electronics & communication organized 2<sup>nd</sup> National Conference on Emerging Trends in Electronics & Communication NACETEC'19 on 20,21 march 2019. It was inaugurated by Mr.Soman V, Deputy general manager BSNL(Retd.). The conference had a keynote address on Recent advancement in LTE, by Mr Soman V, and an invited talk on Basis & Advancement in haptics by Dr.Sreeni K G, Assistant professor CET. Different tracks are arranged for paper presentation at different venues. We got 60 no. of papers from various Engineering colleges and out of which 42 papers are selected and presented in the conference and these papers are published in the journal IJESRT. An amount of Rs 68250 generated in the conference as registration fees.



#### **Faculty Development Program and Workshops**

Department of ECE has conducted an FDP on IoT and Its Applications from 21/02/19 to 23/02/19. The course had 5 hands on Sessions which introduced the Applications and principles behind IoT(Internet of Things).The sessions were handled by Mr Devadath,Mr.Arun and Mr.Sanvin.T.V,Embedded system Engineers from BitsForge Systems ,Ernakulam.The course covered IoT domain related to Hardware,Operating Systems and Web IoT protocols,Building Blocks and Schematic of IoT such as sensors,hardware and cloud components.



#### FDP ON RECENT TRENDS IN NEMS

Department of ECE has conducted an FDP on Recent Trends in NEMS from 25/02/19 to 27/02/19. The course had 5 hands on Sessions which introduced the Nano electronic devices, basic properties of two dimensional semiconductor nanostructures, square quantum wells of finite depth, parabolic and triangular quantum Wells. Quantum wires and quantum dots, carbon nano tube, graphene. The sessions were handled by Dr.B.Beena, Associate Professor, KSMDDB College, Sasthamkot, Dr.B.Premlet, Prof.T. E .Ayooob Khan MES Institute of Technology and

Management Chathannur, Prof. Anu Aziz, Associate Professor, TKM College of Engineering, Kollam, The sessions also include Tools used for of Nano materials characterization, microscope-optical, electron, and electron microscope. Principle of operation of Scanning Tunneling Microscope, Atomic Force Microscope, Scanning Electron microscope, Specimen interaction. Transmission Electron Microscope.



## CS/IT

### NATIONAL CONFERENCE (AICT 2019)

The third national conference on Advances in Informatics and Computing Technologies (AICT '19) was organized by Computer Science Department on 29<sup>th</sup> and 30<sup>th</sup> March 2019. A platform was provided to academicians, researchers to share their ideas in various aspects of Computer Science and Information Technology. More than 150 entries have been received out of which 80 papers were selected and attended the conference and presented their papers. The selected papers were published in IJESRT (International Journal for Engineering Science and Research Technology.) This was very much beneficial for all who attended the conference.



**FACULTY DEVELOPMENT PROGRAM ON DEEP LEARNING**

A faculty development program on DEEP LEARNING was organized by Computer Science Department from 29<sup>th</sup> January 2019 to 31<sup>st</sup> January 2019. This course was attended by the faculty members from various Engineering disciplines/MCA/CS etc. The course was based on Deep Learning Fundamentals, Deep Neural Networks, and Recent Advancements in Deep Learning etc. The class was conducted by Dr. Ram Prasad K (Vision Cog Research and Development) and Dr. Anjana P. Das (Specialist in Artificial Intelligence)





## FACULTY DEVELOPMENT PROGRAM ON COMPUTER VISION

A faculty development program on COMPUTER VISION and its application was organized by Computer Science Department from 10<sup>th</sup> April 2019 to 12<sup>th</sup> April 2019. This course was attended by the faculty members from various Engineering disciplines, universities etc. The course was based on Deep Learning in Computer Vision, Python in Computer Vision 3D modelling etc. The class was conducted by Mrs.Jyothika J Nair(Associate Professor, Amritha College Of Engineering), Vinitha Panicker J(Assistant Professor Amritha College of Engineering), Mr.Binu Jose, Ms. Soumya T(Assistant Professor n MBCET TVM) and Mrs.Tessy Mathew (Associate Professor MBCET TVM.)



## EXPERT TALKS

1. An expert lecture program was conducted on **Database Design** by Mrs.Renetha Associate Professor Lourde Matha College of Science and Technology Trivandrum on 13<sup>th</sup> February 2019. This lecture was attended by students of S4 IT
2. An expert lecture program was conducted **on Compiler Design** by Mrs.Preetha Mathew Associate Professor CUCEK Kuttanad on 22<sup>nd</sup> February 2019. This lecture was attended by students of S6 CS and IT
3. An expert lecture program was conducted **on Medical Imaging** by Dr.Jisha John Assistant Professor MBCET Trivandrum on 25<sup>th</sup> February 2019. This lecture was attended by students of S2 Mtech

4. An expert lecture program was conducted on **Cloud Implementations** by Dr.Anu V.R Associate Professor SNGCE, Kolencherry on 26<sup>th</sup> February 2019.This lecture was attended by students of S2 and S4 Mtech

5. An expert lecture program was conducted on **Data Mining** by Dr.Anzar S Assistant Professor TKMCE Kollam on 27<sup>th</sup> February 2019.This lecture was attended by students of S2 and S4 Mtech

6.An expert lecture program was conducted on **Report Writing** by Mr.Preenu P S Assistant Professor University College Trivandrum on 28<sup>th</sup> March 2019.This lecture was attended by students of S8CS and IT

### Department of EEE

#### Workshop Organized

Aurdino World: A workshop on Arduino uno for Higher secondary Students



#### Workshop on Arduino and IoT of things



### **3. Department Association activities :**

- VII<sup>th</sup> volume of newsletter DYUTHI 2018-19 was released by Mr. Ajeesh A, Principal Engineer, Power Electronics Group, CDAC Trivandrum on 26/03/2019.

- Department of Electrical and Electronics Engineering released the **3<sup>rd</sup> volume of technical magazine, Rheos 2018** on **30/10/2018** by **Dr. L Vijayaraghavan, Professor, IIT Madras.**
- A workshop on **‘Arduino Uno’** is organised for S1 EEE students by DYUTHI, the students association of Electrical and Electronics engineering on **26/10/2018.**
- DYUTHI, the student association of Electrical and Electronics Engineering is organizing a **WORKSHOP ON PCB DESIGN AND FABRICATION** for S3 EEE students on **23/10/18 & 24/10/18.**
- A real time learning experience is organised for S3 EEE students on the topic **‘Familiarisation of Yard and Substation’** by **DYUTHI**, the students association of Electrical and Electronics engineering on **12/10/2018.**
- **Programmes scheduled in the Month of May**
- Release of III<sup>rd</sup> Volume of **Abstract book**
- Release of III<sup>rd</sup> volume of Project book: Niryuh 2019

#### 4. Research & Development activities:

Department of Electrical & Electronics Engineering has signed Memorandum of Understanding (MoU) for improving research and development with the following industries listed below.

##### **List of MOUs Signed with various companies**

<b>Sr.no</b>	<b>Name of Company</b>	<b>Area of Expertise</b>	<b>Objectives of MOUs</b>	<b>Achieved</b>
1	Entuple technologies (P) ltd, Bangalore	FPGA	to participate in product development activities through projects sponsored by firm	Done UG level projects/lab experiments
2	Kerala Electrical Limited,,Kundara.Kerala.	Electrical machines	to carry out industry institute interaction through projects, research participation, student internship and also by joint projects	project area identified by UG students

3	Centre for Development of Advanced Computing(C-DAC),Thiruvananthapuram	HSPERC	Research in frontier area of power systems, power electronics and to Conduct semniars, conference, expert lectures	conducted expert lecture for students and short term courses for faculty by CDAC experts and also done a UG project in this area
4	Silicon Microsystems /silicon education world pvt ltd, Bangalore	PLC	Conduct short courses, lectures, workshops and seminars	Done UG level projects

Our Department has an MoU with Centre for Development of Advanced Computing (C-DAC) , a premier R&D organization of the Ministry of Electronics and Information Technology for carrying out R&D in IT, Electronics and associated areas.



In this academic year , we had developed a new IP titled EV-Energy Management \_PO for the efficient energy management in electric vehicle and grid. Also developed a customized control logic in DSPIC motor control platform for two projects titled ‘BLDC Pump and BLDC fan. Utilising the HSRPEC technology of CDAC , we had developed new IPs titled ‘BLDC\_CTRLR’and ‘MPPT\_PO and are added to the HSRPEC library of C-DAC in the year 2018. Details are given below.

Sl	Project Title	Year	Remarks
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N o			
1	A Novel Control Strategy for Energy Efficient Electric Vehicle	2018	Developed an IP titled 'BLDC_CTRLR'
2	Cost effective Drift Free MPPT based Dual Boost PV Microinverter.	2018	Developed an IP titled 'MPPT_PO'
3	Single Stage PV fed BLDC Motor for Water Pumping Application	2018	Developed an IP titled 'BLDC_CTRLR & MPPT_PO'
4	An energy management strategy for electric vehicle using HSRPEC technology.	2019	Developed an IP titled 'EV-Energy Management(HESS)_PO'
5	Distributed generation control and energy management using high speed reconfigurable controller	2019	Developed an IP titled 'EV-Energy Management(HESS)_PO'
6	Solar based LVDC LVLS fan	2019	Developed customized control logic in DSPIC Motor Control Platform
7	Design And Implementation of Solar Powered Bldc Pump For Water Purification	2019	Developed customized control logic in DSPIC Motor Control Platform

Along with other research activities, the department offering consultancy works to external

industries also. The department usually conducting the testing of lighting equipment's and motors from various organizations

SL.No.	Year	Name of the Firm	Details of work	Amount
1	2018-19	SK Electricals & Contractors, Kollam	Quality test of 20W LED Street Lighting System	Rs. 2000/-
2	2017-18	Kerala Construction Specialities Kollam	Quality test of 20W LED Street Lighting System	Rs. 1500/-
3		PMKVY	Solar Technician Course Asst. Electrician Course	Rs. 700000/-

Based upon the emerging trends in the field of Electrical engineering and research interest of faculty, students are encouraged to select socially relevant project as their undergraduate project in an advanced area beyond the syllabus. A few are listed below.

Sl. No	Title of the Project
1	Solar Powered Aqua Trams
2	Smart Energy Management
3	IoT based Agrometer
4	Smart Health Monitoring Wheel Chair Using IoT Applications
5	VI-VE: A Safety Vehicle Control System
6	Solar Powered LVDC nanogrid

### Research Publications 2018-19

All in students are insisted to present their project work in any national or international conference and also encouraged to publish their work in any reputed journals having high impact factor. Details of papers published are listed below.

1. Aswathy B, Swathi S Kumar, Irfaan Rebeeh “Portable solar refrigerator using peltier module”.

2. Sofiya A , Arya V, Vishnu Mohan “Smart Health monitoring wheelchair using IOT applications”
3. Rekha T, Lekshmi Mohan, Shahana Rahim , “Design and Implementation of solar powered pump for BLDC application”.
4. Kannan S A, Vidhya A V “IOT based agrometer for crop production”.
5. Renjth G , Anju J , ‘Design and implementation of novel captive flood tolerant domicile”.
6. Abilash R S, Lekshmi C Senan , “Design and implementation of solar powered aqua trams”.
7. Jasna Basheer , Amala Bastian, “A fully portable autonomous robot for PV panels: Cleaning and crack detection”.
8. Santhosh Raj, Shahana Rahim, “Solar based LVDC LVLS fan”.
9. Bindu S J, Amina Nizar, “Distributed generation control and energy management using high speed reconfigurable controller”.
10. Sofia, A , Alfia S H, “An energy management strategy for electric vehicle using HSRPEC technology”.
11. Edwina G Rodrigues, Aswin S , “Electromagnetic reciprocating Engine”.
12. Sreeraj R, Sajin , “All terrain suvillance robort for human detection and tracking”.
13. Abilash R S, Adarsh K Nair , “Three phase three switch inverter fed induction motor device with PFC based converter”.
14. Edwina G Rodrigues, Al Hashim Rahman , “Solar powered nano grid for residential applications”.

The students are encouraged to participate in technical events, paper contests and quiz competitions which are conducted within and outside the institution for promoting the self-learning and learning beyond syllabus

SI no	Name of student	Project work	Certificate issue agency/institution	Certificate

1	Aswin S Sanjai Steve Stanly Subin Joseph AnanduAsok P B Lekshmi	Participated in “Orion Kerala State Institute of Design Innovation Awards” with the project titled “Solar Power Automated Lawn Mover”	Kerala State Institute of Design	Shortlisted for KSID Awards
2	Nazim Nazar BubyBabu Muneera Mol M V Amina Nizar Lekshmi Mohan	Participated in “Orion Kerala State Institute of Design Innovation Awards” with the project titled “Automatic Ration Vending Machine”	Kerala State Institute of Design	Attain 4th position
3	Anju J Vidhya A V Sreelekshmi P R Abhinandha S Vivek S Babu	Participated in “Orion Kerala State Institute of Design Innovation Awards” with the project titled “Automated Collision Avoidance System”	Kerala State Institute of Design	Shortlisted for KSID Awards
4	Sreelekshmi J S Sreelekshmi Alfia S Harish Sreemurukkan M S Anoop S	Participated in “Orion Kerala State Institute of Design Innovation Awards” with the project titled “Electric Vehicle”	Kerala State Institute of Design	Shortlisted for KSID Awards
5	Al Hashim Ashik rahim Sandeep S Nair	Participated in “Orion Kerala State Institute of Design Innovation	Kerala State Institute of Design	Attain 7th Position



	Arun Vijay Irfan Rabeeh	Awards” with the project titled “Integrated smart trash Bin”		
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**DETAILS OF FUNDED PROJECTS IN 2018-19**

Sl. No	Title of the Project	Principal Investigator	Funding Agency	Amount Sanctioned
1	Solar Powered Aqua Trams	Mr. Abilash R S	KSCSTE	Rs.8000/-
2	Smart Energy Management	Dr. Bindu S J	KSCSTE	Rs.7000/-
3	IoT based Agrometer	Mrs. Edwina G Rodrigues	KSCSTE	Rs.8000/-
4	Smart Health Monitoring Wheel Chair Using IoT Applications	Mrs. Sofiya A	KSCSTE	Rs.8000/-
5	VI-VE: A Safety Vehicle Control System	Dr. Bindu S J	INNOVA TE-KSCSTE	Rs.15000/-
6	Solar Powered LVDC Nano grid	Mrs. Edwina G Rodrigues	TEQIP-II	Rs.5000/-
7	Design And Implementation of Solar Powered Bld c Pump For Water Purification	Mrs. Rekha T	TEQIP-II	Rs.5000/-

## 5. Start ups

SI no	NAME OF THE STUDENT	Classes	INSTITUTE	EVENT	POSITION	LEVEL
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A business proposal is received Aswin S (S8EEE) regarding the start up 'The Online Store' and it is under processing to incubate under the TBI of College of Engineering Perumon.

## 6. Consolidated R & D (2018-19)

Particulars	Amount (Rupees in .....)
<b>Revenue Receipts</b>	
Revenue Expenditure	
<b>Revenue Surplus/Deficit</b>	
Capital Receipts	Rs.56,000/-
Capital Expenditure	
<b>Capital Surplus/Deficit</b>	

## 7. UNIQUE ACHIEVEMENT DURING THE YEAR

- Department secured **NBA accreditation** with a overall score of 667 out of 1000 for a period of three years from (2018-2021)
- Secured 2 university ranks published by Cochin University of Science And Technology(CUSAT)

Loyala Ann George -3<sup>rd</sup> rank  
Midhula T S -9<sup>th</sup> Rank

- List of Achievement by students

1	Vidhya A V, Sarath babu, Aarthi madhu Vishnu darsan	4 <sup>th</sup> Year	MES institute Technology and management, Chattanoor ,Kollam	Project competition	First	State
2	Nazim Nazir, Muneera mol M V Buby babu Amina Nizar	4 <sup>th</sup> Year	MES institute Technology and management,Chattanoor Kollam	Project competition	First	State
3	Vidhya A V Sarath babu, Neeraj mohan Vishnu S Darsan	4 <sup>th</sup> Year	College of Engineering Kidangoor	Project competition	First	State
4	Vidhya A V Anju J Aarathi madhu	4 <sup>th</sup> Year	College of Engineering Aranmula	M inverter challenge	First	State
5	Anoop S, Sreemurukan	4 <sup>th</sup> Year	Govt College of Engineering Thrissur	KETCON- 19	Participatio n	State
6	Lekshmi C Senan . Aarathi madhu	4 <sup>th</sup> Year	Younis college of engineering and techynology ,Pallimukku	Seminar competition organized by KSEBA	Participatio n	State
7	Vidhya A V Anju J	4 <sup>th</sup> Year	Younis college of engineering and techynology ,Pallimukku	Seminar competition organized by KSEBA	Participatio n	State
8	Aswin S	4 <sup>th</sup> Year	Bannari Amman Institute of Technology ,Erode,Tamil nadu	SAE business plan competion	3 <sup>rd</sup> prize	NATIO NAL
9	Alhasim Rahman	4 <sup>th</sup> Year	Bannari Amman Institute of Technology ,Erode Tamil nadu	SAE business plan competion	3 <sup>rd</sup> prize	NATIO NAL
10	Aswin S	4 <sup>th</sup> Year	RIT Kottayam	SAE business plan competion	2 <sup>nd</sup> prize	State
11	Alhasim Rahman	4 <sup>th</sup> Year	RIT Kottayam	SAE business plan competion	2 <sup>nd</sup> prize	State
12	Aswin S	4 <sup>th</sup> Year	College of engineering Perumon	National conference	Best paper award	Nationa l
13	Lekshmi C Senan	4 <sup>th</sup> Year	College of engineering Perumon	National conference	Best paper award	Nationa l

## **2. IEDC: activities during 18-19**

- Jesna Joseph (CS6), Sheenu(EC6) and AmalaBastin (EE8)Presented ‘Smart trash bin’”in National Women Entrepreneurship Conclave (WeCon 2018) on 29<sup>th</sup> & 30<sup>th</sup> August 2018 at Jain University, Kanakpura Road, Bangalore organised by International Institute of Waste Management (IIWM) in collaboration with AICTE.
- A start up ‘TenZero Web Solutions’ by Sanjay P J(IT6), Nikhil James (IT6), Athulya Raj (IT6) and Sandra Dickson(IT6) incubated in the IEDC, College of Engineering Perumon.
- A start up ‘Insight Training Services’ by Jerin Johnson(ME8), Jesna Joseph(CS6), and Abdul Aziz (EC6) incubated in the IEDC, College of Engineering Perumon.
- Ganesh S Chandra V S (EC4) and Anandhu S (EC4) participated inInspire, the Kerala Start up Mission Zonal Meeting organised by College of Engineering Aranmula.
- A business proposal is received from Aswin S (S8EEE) regarding the start up ‘The Online Store’ and it is under processing to incubate under the TBI of College of Engineering Perumon.
- A business proposal is received from Ganesh S Chandra V S (EC4), Anandhu S (EC4), Sruthi S Pai(EC4), Amalu A P (EC4), andRony Joseph (EC4), regarding the start up ‘Indigen’ and it is under processing to incubate under the TBI of College of Engineering Perumon.

## **Professional Bodies**

- IEEE, ISTE , CSI & SAE INDIA
- INSPIRON 2K18 IEEE students branch of CEP conducted a two day workshop on quadcopter, IOT,IC Engine,SCAPA &PLC





Three days workshop on “Outcome Based NBA Accreditation with Emphasis on how to prepare SAR “ from January 11-13 ,2018

### SPORTS

- Cep Athletic team won **3 Gold Medals** in CUSAT Athletic Meet 2017.
- Favaz Noushad of CS8 got selection as **CUSAT Football Team Captain** for 2017-18.
- **Adithyan S I** was in the college football team which participated & was the runner up in **KTU B Zone football tournament**
- College football team won the **All Kerala Intercollegiate Tournament (SH Trophy)** conducted by SH College Kadakkal.



## NSS REPORT 2018-19

Name of the Activity	Date	No. of volunteers
Food safety awareness program by Department of Health. Govt. Of Kerala	22/02/2019	48
Workshop on leadership at Motherhood charitable mission Neendakara	23/03/2019	39
Tech fest Volunteering	15/03/2019, 16/03/2019	25
Symposium activities		
Arts & Sports volunteering	06/04/2019, 07/04/2019	26

### 1. DRESS FOR THE NEEDY...

NSS volunteers collected unused dress and handed over to the needy on 8/9/2017.

### 2. LOVE PLASTIC CAMPAIGN

NSS CEP and Mathrubhoomi joined hands together to a campaign to reduce and eliminate plastic from our locality.



### 7.SANSAD ADARSH GRAMA YOJANA

SAGY Project includes collecting all information about the Panchayath and improving the life style of natives . The report has been submitted to the Govt and the institutes was awarded by AICTE for our esteem work.

## 8. NEENDAKARA HARBOUR CLEANING

### 9. Blood Donation Camp, Eye Check Up

Our NSS Volunteers incorporated their activities with the blooming NGO of Perumon Thanal.

### 10 .Haritha Keralam Mission



### 11.PUNARJANI CAMP 2018

Volunteers renovated the primary health center and its medical equipments worth 52 lakhs .We received an appreciation letter for the work at the ceremony of converting the primary health center to family health center.

## 12. VISIT IN ABHAYAKENDRAM CANCER CARE CENTRE UNIT



- **Pradhan Manthri Yuva Yojana- Enterneurship Development**

PM-YUVA Yojana(Pradhan Mantri Yuva Udyamita Vikas Abhiyan) aims to create an enabling ecosystem for Entrepreneurship Development through entrepreneurship education and training across the country in select Institutes of Higher Learning (Universities, Colleges and Premier Institutes). Our College has been **selected among 15 engineering colleges** in Kerala. First instant instalment of the grant **1.54 lakhs** has been released,





### **Publications/ Conference/Seminar/ Workshop attended by the faculty**

- National Conference Publications: 20
- Workshop attended :8
- National Conference Attended:25
- Seminar Attended: 10
- No. of Papers in International Journals:13
- No. of Papers in National Conference:13

## **VII. UNIQUE ACHIEVEMENT DURING THE YEAR**

### **NBA Accreditation**

An expert team conducted on- site evaluation of the ECE and EEE programs from 16 to 18 November 2018. The department of ECE and EEE got accredited by National Board of Accreditation for the academic years 2018-19 to 2020-21 up to 30-06-2021.



## **VIII. CONCLUSION**

At the end of the financial year 2018-19, we have reasons to be satisfied on many counts: First, the institution is on a sound footing on its journey towards excellence in terms of obtaining NBA accreditation to our two departments. Secondly, it is well noticed in the professional area, as exemplified by the improved interaction with reputed institutions through the national conferences and FDPS conducted number of lectures by the faculty, publications by the staff and students etc. Thirdly, we were able to maintain a peaceful atmosphere conducive for meaningful academic work. We will strive hard to realize our vision of excellence through the wings of science and technology, in the service of humanity.

**PRINCIPAL**