



# COLLEGE OF ENGINEERING VADAKARA

(Under CAPE, Estd. By Govt. of Kerala)

Mandarathur P.O, Kozhikode District, Kerala -673105

An Institution accredited by NAAC with 'B+' Grade

An ISO 9001 – 2015 certified Institution

## I. Brief History of the College

The College of Engineering Vadakara, is a Government controlled Engineering College established by Govt. of Kerala in the year 1999 managed by Co-operative Academy of Professional Education (CAPE) under the Ministry of Co-operation. The College is affiliated to APJ Abdul Kalam Technological University (KTU).

### Land & Location:

The campus is located at Kurunthodi in Maniyur village about 13 km away from Vadakara town along the Palayad–Maniyur road and is situated on the hilltop of ‘Kakoramala’, with lush green and beautiful surroundings stretching over an area of about 27 acres. The nearest railway station Vadakara is 14 Km away from the Campus.

### Board of Governors:

1	Prof. Dr. K.G.Balakrishnan, Nellippuzha Madom, Bismi Garden, Edappally,Kochi-682024	CHAIRMAN	Educationalist
2	Special Secretary Co-Operation Department, Govt.Secretariat, Thiruvananthapuram	EX-Officio Member	Govt. Nominee
3	Secretary to Govt. Finance Department Govt.Secretariat, Thiruvananthapuram	EX-Officio Member	Govt. Nominee
4	Dr. Vrinda V Nair Director SPFU Trivandrum	EX-Officio Member	Govt. Nominee
5	Prof. Dr. R. Sasikumar Director, Co-operative Academy of Professional Education (CAPE), Co-Bank Towers, Vikas Bhavan, Thiruvananthapuram	EX-Officio Member	Director, CAPE
6	Dr.G P Padmakumar Registrar, KTU	Member	University nominee



## University Recognition:

Provisional recognition for College of Engineering Vadakara was accorded by the KTU as per order No. KTU/A/456/2015 Dtd: 30.06. 202019 for the B.Tech course in Civil Engg, Computer Science & Engg, Electronic & Communication Engg, Electrical and Electronics Engg, and MCA with 60 seats each and B.Tech Information Technology with 30 seats .From the academic year 2015-16 all the B.Tech courses have been disaffiliated from CUSAT and affiliated to APJ Abdul Kalam Technological University vide order No KTU/A/456/2015 dated 14 May 2015.

## Government Sanction:

Government accorded sanction for starting B. Tech Courses in 4 branches Electronics and Communication, Electronics and Instrumentation, Information Technology and Computer Science in 2000, B. Tech course in Electrical and Electronics & Civil Engineering in 2009 and MCA course in 2010.

## Academic Programmes:

The college offers undergraduate courses in the following branches:-

- (a) Civil Engineering - 60 Seats
- (b) Computer Science & Engg - 60 Seats
- (c) Electronics & Communications Engg - 60 Seats
- (d) Electrical & Electronics Engg - 60 Seats
- (e) Information Technology - 30 Seats

Post graduate programme

- (f) Master of Computer applications - 60 Seats

## Working Hours:

Class timings are from 09 AM to 4 PM. The students had a five day week as per the curriculum prescribed by the KTU. Library and computer center are functioning from 8.30am to 5.00 pm. The offices were also functioning all days except Sundays from 09 AM to 4PM.

## Admission during the last 3 years:

2017 – 18												
Branch	Sanctioned				Total sanctioned	Admitted				Total Admitted		
	Merit	Mgt	NRI	TFW		Merit	Mgt	NRI	TFW			
CE	36	21	03	03	63	35	16	03	03	57		
CSE	36	21	03	03	63	31	15	03	03	52		
EEE	36	21	03	03	63	32	01	01	03	37		
ECE	36	21	03	03	63	21	0	0	03	24		
IT	36	21	03	03	63	15	0	0	03	18		
EIE	36	21	03	03	63	08	01	0	0	9		
MCA	60	0	0	0	60	11	0	0	0	11		
Total	276	126	18	18	438	153	33	7	15	208		
2018-19												
Branch	Sanctioned					Total sanctioned	Admitted					Total Admitted
	Merit	Mgt	NRI	TFW	Reserv ation		Merit	Mgt	NRI	TFW	Reserv ation	
CE	36	19	03	03	02	63	36	11	03	03	0	53
CSE	36	19	03	03	02	63	36	07	03	03	0	49
EEE	36	19	03	03	02	63	21	01	02	03	0	27

ECE	36	19	03	03	02	63	14	0	03	03	0	20
IT	27	0	0	03	0	30	07	0	0	03	0	10
EIE	27	0	0	03	0	30	03	0	0	0	0	3
MCA	60	0	0	0	0	60	05	0	0	0	0	5
Total	258	76	12	18	8	372	122	19	11	15	0	167

Total number of students admitted in the current academic year 2019 – 20

Branch	Sanctioned					Total sanctioned	Admitted					Total Admitted
	Merit	Mgt	NRI	TFW	Reserv		Merit	Mgt	NRI	TFW	Reserv	
CE	36	18	3	3	3	63	21	11	2	3	0	37
CSE	36	18	3	3	3	63	32	9	3	3	0	47
EEE	36	18	3	3	3	63	21	0	1	3	0	25
ECE	36	18	3	3	3	63	19	0	0	3	0	22
IT	27	0	0	3	0	30	14	0	0	2	0	16
MCA	60	0	0	0	0	60	19	0	0	0	0	19
Total	231	72	12	15	12	342	126	20	6	14	0	166

Total number of students admitted in the current academic year 2020 – 21

Branch	Sanctioned					Total sanctioned	Admitted					Total Admitted
	Merit	Mgt	NRI	TFW	Reserv		Merit	Mgt	NRI	TFW	Reserv	
CE	45	14	3	3	1	66	34	6	3	0	0	43
CSE	45	14	3	3	1	66	46	12	3	0	1	62
EEE	45	14	3	3	1	66	17	0	3	0	0	20
ECE	45	14	3	3	1	66	22	0	2	0	0	24
IT	34	0	0	0	0	34	21	0	0	0	0	21
MCA	63	0	0	0	0	63	60	0	0	0	0	60
Total	<b>277</b>	<b>56</b>	<b>12</b>	<b>12</b>	<b>4</b>	<b>361</b>	<b>200</b>	<b>18</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>230</b>

### Result Analysis:

Year of Admission	Branch	Total Students Registered	First Class	First Class with Distinction	Total	Pass %
2014 Admission & MCA 2015 Admission	ECE	61	18	2	20	32.8%
	CSE	65	23	4	27	41.5
	CE	65	31	12	43	66.15%
	IT	37	7	3	10	27.02
	EEE	59	16	5	21	35.59
	EIE	44	9	2	11	25%
	Total	331	104	28	132	39.9
B.Tech 2015 Admission	MCA	61	58	0	58	95.08
	ECE	48	29	3	32	66.7
	CSE	58	17	2	19	32.8
	CE	67	22	7	29	43.28

& MCA 2016 Admission	IT	32	11	0	11	34.38
	EEE	41	16	0	16	39.02
	EIE	33	9	9	18	54.5
	Total	279	104	21	125	44.8
	MCA	30	26		26	86.67
B.Tech 2016 Admission & MCA 2017 Admission	ECE	40	18	9	27	67.5
	CSE	63	33	6	39	61.9
	CE	61	26	15	41	67.21
	IT	38	28	9	37	97.36
	EEE	40	20	1	22	55.00
	EIE	29	11	6	11	38
	Total					
	MCA	45	43	-	43	95.56

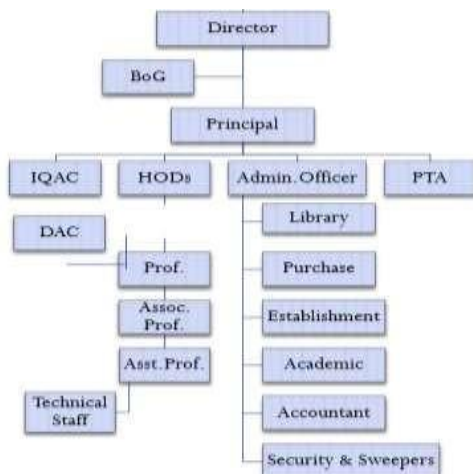
### Placement Statistics (Training and Placement):

Training & Placement activities:

Sl No	Program	Organisation	No of Days	Period	Batch	Date
1	Career orientation Pgm	CGP Career Avenues	1	3 Hrs	CS/IT	28-07-2020
2	Career orientation Pgm	CGP Career Avenues	2	3 Hrs	EC/EI/EEE	29-07-2020
3	Career orientation Pgm	CGP Career Avenues	3	3 Hrs	CE	30-07-2020
4	CTS Pattern Specific Training	CGP Career Avenues	9	25 Hrs	Final Year Eligible	19/09/20-27/09/20
5	TCS NQT Pattern Specific Training	Jays Academy	6	24 Hrs	Final Year Eligible	18/10/20-23/10/20
6	WIPRO Pattern Specific Training	Jays Academy	6	18 Hrs	Final Year Eligible	23/12/20, 24/12/20, 26/12/20, 27/12/20, 27/12/20 and 29/12/20
7	Introduction to corporate culture	T-Horizon	2	12 Hrs	All S5 students	24/12/20 and 26/12/20
8	Introduction to corporate culture	T-Horizon	2	12 Hrs	All S3 students	08/01/2021 and 09/01/2021
9	INFOSYS Pattern Specific Training	Progressum	4	20Hrs	Final Year Eligible	01/02/21 to 04/02/21

### III. Manpower Management

#### Structure of Organisation



#### New appointments:

Sl. No.	Post	Regular	Contract	Adhoc	Daily wage	Apprentice	Total
1	Nil						

#### Staff position:

Sl. No.	Post	Regular	Contract	Adhoc	Daily wage	Apprentice	Total
1	Principal						
2	Professor	1					1
3	Associate Professor	2					2
4	Assistant Professor	47		24			71
5	Computer Programmer	-	-				
6	Workshop Superintendent	-	-				
7	Instructor	4					4
8	Trade Instructor	8					8
9	Administrative Officer	-	-	-	-	-	-
10	Junior Superintendent	1					1
11	Assistants	3	1				4
12	Librarian	1			1		2
13	Library Assistant	1					1
14	Attender cum Driver	1					1
15	Peon	1					1
16	Sweeper	1			5		6
17	Apprentice					7	7
18	Security staff		3				3
19	Lab attenders				2		2
20	Electrical engineer						
21	Project Engineer						
22	Assistant Engineer(CE)						

23	Electrician cum plumber		1				1
24	Clerical Assistant	1					1
25	Gardener				1		1
26	Cleaner in Library		1				1
27	Overseer (Civil)		1				1
	<b>TOTAL</b>	72	7	24	9	7	119

#### IV. Facilities Available

##### Library:

Library Area		Carpet area – 430sqm, Reading space – 200sqm		
Working Time		8.30 AM – 5.00 PM		
Sl.No.	Resources available	Total no. of Items available during the year 2020 – 21	New volumes added during the year	Remarks
1	Books	23238		
2	e-books	419		
3	E –Journal	-	-	Not Renewed in the year 2020-21
4	Printed Journal	-	-	Not Subscribed
5	Magazines	-	-	Not Subscribed
6	News Papers	3	3	

##### Laboratory facilities:

Sl. No.	Department	Name of Laboratory/Workshop	New facility added during the year
1	Computer Science	<ol style="list-style-type: none"> <li>1. Network &amp; OS Lab</li> <li>2. DBMS Lab</li> <li>3. Hardware Lab</li> <li>4. Programming Lab-I</li> <li>5. Programming Lab-II</li> <li>6. Central Computing Facility</li> </ol>	Nil
2	Electronics & Communication Engineering	<ol style="list-style-type: none"> <li>1. Basic electronics Lab</li> <li>2. Electronics circuit Lab</li> <li>3. Digital Electronics lab</li> <li>4. Microprocessor lab</li> <li>5. Embedded systems lab</li> <li>6. Communication Lab – 1</li> <li>7. Communication Lab -2</li> <li>8. Digital signal processing lab</li> <li>9. Electronics Workshop</li> <li>10. Project lab</li> </ol>	Nil
3	Electrical & Electronics Engineering	<ol style="list-style-type: none"> <li>1. Power Electronics Lab</li> <li>2. Circuits and Embedded System Lab</li> <li>3. Measurements Lab</li> <li>4. Digital circuits and Embedded Lab</li> <li>5. Power System Lab</li> <li>6. Electrical Machines Lab 1 and 2</li> </ol>	Nil

		7. Systems and Control Lab	
4	Civil Engineering	1. CADD Lab 2. Environmental Engineering lab 3. Transportation Engineering lab 4. Geotechnical Engineering lab 5. Material testing lab-I 6. Material testing lab-II 7. Survey lab 8. Civil Engg. Workshop	Nil
5	Electronics and Instrumentation Engineering	1. Power Electronics Lab 2. DSP Lab 3. Process Control Lab 4. Project Lab	NIL
6	Mechanical Engineering	1. Carpentry 2. Fitting 3. Sheet metal 4. Welding	Nil
7	MCA	1. LAB 1 2. LAB 2	Nil
8	Information Technology	1. Programming LabI 2. Programming LabII	Nil

#### Hostel Facilities:

Name of Hostel	Area	Capacity	Actual intake
Kirans Hostel	9700 Sq.Ft	100	97
Green Valley (Boys)	11250 Sq.Ft	120	44
Eaton Ville	12500 Sq.Ft	125	102

#### Canteen & Cafeteria:

	Area	Seating Capacity	Fuel used
Canteen	310 M <sup>2</sup>	200	LPG & Firewood
Cafeteria	20 M <sup>2</sup>	15	LPG

#### Building and other infrastructure:

Building	Area	No. of class rooms	No. of amenity rooms
Block A( Administrative block )	4201 M <sup>2</sup>	6	
Block B( CSE& IT )	2564 M <sup>2</sup>	10	1
Block C( ECE& EIE )	2564 M <sup>2</sup>	6	1
Block D ( MCA )	2573 M <sup>2</sup>	6	
Block E( CE& EEE )	2738 M <sup>2</sup>	9	

#### Facilities

Completed	Ongoing	Pending projects
-	Ladies Hostel	Borewell



**Sports facilities:**

- Volley ball court
- Basketball court
- Shuttle badminton court
- Football/cricket court

**Stores:****Co-operative Societies:**

There is a full-fledged registered co-operative society (Co-operative Institute of Technology, co-operative store Ltd No. D 2845) functioning in the college since its inception. One staff is appointed in the store for its day to day smooth functioning. A committee consisting of 5 members has been constituted for managing the overall functioning of the store. All stationery items and uniform cloths required for the students are being provided. Light snacks, tea and coffee are also being served in the store.

**Transportation facilities:**

College is having 10 buses for conveyance of our students and staff. These buses are being running from all important destinations such as Payyoli, Vadakara, Perambra and Koyilandy. Busses are managed by a bus committee consisting of faculty, staff, PTA and students representatives headed by the principal. The bus committee have decided to condemn two buses KL -13 / G-2777 & KL-7/ AE 1801 as these have completed 20 years of service and documentation work for that is under process.

**Internet facilities / wi-fi Connection:**

The college has 100 Mbps NKN & 10 Mbps BSNL internet facility with campus Wi- Fi connectivity. All academic blocks are Wi-Fi connected.

**Auditorium:**

No auditorium for college.

**V. Co-curricular Activities:****Consultancy Projects:**

Nil

**R & D Activities:**

- a. The College is organizing an Online National Conference on Advances in Computing Communication Signals Energy and Technology, ACCSET'21, scheduled to be held on 26<sup>th</sup> and 27<sup>th</sup> of May 2021. The conference is intended to provide a forum for researchers and engineers from broad fields of electrical, electronics, instrumentation, computer and information technology to share ideas and disseminate research findings in emerging areas of signal processing, communication, power, computation and other fields of technology.
- b. Student Projects Review: R & D cell reviewed Final year projects of MCA , IT and CS branches

**Centre for Continuing Education (CCE):**

1. Civil Engineering Department generated Rs. 1,30,000 in consultancy works.
2. GATE examinations conducted during the month February 2021.
3. CAPE examinations were conducted during the Month February 2021.

### Counseling Cell:

- Around 14 students were counseled/ motivated for various reasons for this year.

Activities	Date	Brief Description
Online Session	3/12/2020	Topic :Motivation through counseling by Farheen Ashraf for first year students

### Students' council:

Activities	Date	Brief Description
Welkom Fiesta	25/12/20	A type of online treasure hunt for the freshers to have a interaction with the senior students.

### Staff Club:

Activities	Date	Brief Description
Sent off Meeting	11.08.2020	Sent off Party to faculty transferred various colleges of CAPE

### College Development Committee (CDC):

College development committee is constituted with MLA as chairman, Principal as Secretary MP, Panchayath president HoD's are the members.

### Anti Ragging Committee:

Name	Designation	Designation in Committee
Dr. Joseph OA	Principal	Chairman
Mr.Pradeep.T.S	Associate Prof, EIE .	Convener
Mrs.Shabana Salih K.	H.O.D - CE	Member
Mrs.Smitha C.K	Associate Prof, EIE	Member
Kum.Rajalekshmy K.D,	H.O.D – MCA	Member
Mr.Prapu Premanath	H.O.D – ECE	Member
Mr.Nithin.T	H.O.D – EEE	Member
Mr.Sanesh.C.K	Physical Education Instr	Member
Mr Shyju .V.V	Instructor CE	Member
SI, Police Station Vadakara	Inspector of Police, Vadakara	Police Member
Mrs.Dhanya.V.V	H.O.D – I.T	Student Member
Mrs. Deepthi.K	H.O.D – CSE	Student Member
Mr.Prajith Kannur	PTA Vice president	NGO Member
Mr.Vijayan	Media Rep	Media Member

### Grievance Redressal Committee:

The college has an online grievance management system in CMS, where any aggrieved student may submit an application seeking redressal of grievance. On receipt of an online complaint, it is referred to the appropriate Committee by grievance redressal committee within 15 days of receipt of complaint on the online portal. The student can view the status of the submitted complaint in CMS. The College Council meeting held on 23 rd November 2020 reconstituted Grievance Redressal Committee with following members:

1. Smt. Shibili T, Assistant professor, CSE(convenor)
2. Sri. Pradeep T.S, Associate professor EIE (member)
3. Sri. Shanavas K P, Assistant professor, ME(member)

The last meeting of the committee was held on 22-02-2021 to discuss how to make use of the online grievance management platform more effectively.

**NPTEL Activities:**

The following faculty undergone NPTEL SWAYAM certification courses.

SI No	Name	Designation and Dept	Program	Institution	Program Date
1	Mrs. Ragi R G	AP in ECE	Online Training Program on Digital Image Processing (NPTEL)	IIT Kharagpur	Sep-Dec 2020
2	Mrs. Shabana Salih	AP in CE	Online Training Program on Geotechnical Engineering Laboratory (NPTEL)	IIT Kharagpur	SEP – OCT 2020
3	Mrs. Shabana Salih	AP in CE	Online Training Program on Design of steel structures	IIT Kharagpur	Sep-Dec 2020
4	Mrs. Vijina. V V	AP in CE	Online Training Program on Geotechnical Engineering Laboratory(NPTEL)	IIT Kharagpur	SEP – OCT 2020
5	Mr.Adithya Ranjith	AP in CE	Online Training Program on Geotechnical Engineering Laboratory(NPTEL)	IIT Kharagpur	SEP – OCT 2020
6	Ms. Jubina. C K	AP in CE	Online Training Program on Remote Sensing and GIS(NPTEL)	IIT Kharagpur	SEP – NOV 2020
7	Mr. Sanoj R	AP in IT	Online Training Program on Programming inJava	IIT Kharagpur	Sep-Dec 2020
8	Mr. Sanoj R	AP in IT	Online Training Program on Introduction toInternet of Things	IIT Kharagpur	Sep-Dec 2020

**NSS Activities:**

Date	Title of the activities	Brief descriptions
07-06-2020	Covid kalathe pranayam It's a webinar	It conveys a motivation to all listeners.
14-06-2020	Can I donate blood Awareness of blood donation	The session described the facts and benefits of blood donation.
19-06-2020	Wordera Digital library lounge	The session conducted based on the official digital library lunching of college and its

		inauguration.
20-06-2020	Third Eye Book reading event	A competition about review a book.
21-06-2020	Corona service.com Covid Awareness session	Conducted by know about the precaution should take during volunteering for preventing covid disease.
26-06-2020	Say no to drug Awareness session-Drug abuse	Deals with the dangers of drug abuse.
28-06-2020	Technica webinar	A interactive session deals with the money earning techniques by using waste materials.
05-07-2020	The way to success It's a webinar	It's an interactive session that deals with how can achieve our goals and dreams through a proper time table. It also gives the knowledge about how to crack IAS.
12-07-2020	Basic of automation It's a webinar	Session deals with the mechanical part of studies.
26-07-2020	Ethical hacking It's a webinar	It was a session handle by the basic and important part of hacking.
2-08-2020	The Mentalist It's a webinar	Session conducted about mentalism and how it will be works.
9-08-2020	Networking It's a webinar	The session gives the knowledge about how to make a bond with others.
12-08-2020	Road safety Road safety Awareness	The session handle the safety and rules regarding vehicles that taken in roads.
15-08-2020	Independence day	National flag hosted and messages were given by honorable teachers.
16-08-2020	Atharva Webinar	Session handle about ayurveda and how can improve our health through ayurvedic treatment.
20-08-2020	Flash Mobile Photography Contest	It is a mobile photography competition which held associate with world photography day.
23-08-2020	Mosqid Troll making Competition	It is a troll making competition which held on behalf of world mosquito day.
23-08-2020	Rise up Disaster management training	The session gives the knowledge about the volunteer in the time of flood or other kind of disaster.
31-08-2020	Meetil onam Onam celebration	An interactive session which share the experience about

		volunteering.
02-09-2020	Where does our food comes from Awareness about rights & suffering of farm animals	It gives awareness about the rights and suffering of farm animals and initiative should take for the welfare of farm animals.
5-09-2020	Teachers day celebration	It creates an opportunity to respect our teachers and shows their importance in our life.
6-09-2020	Engineering life It's a webinar	An orientation session deals the engineering life.
13-09-2020	Machine learning It's a webinar	The session handles with the overview about machine learning and how to implement.
15-09-2020	Hi Sir Interactive session with principal	Interactive session by principal with students.
18-09-2020	Iqnew Idea pitching Contest level-1	Idea pitching contest like jam, virtual presentation, live presentation.
20-09-2020	Engineering life #2 It's a webinar	An orientation session deals the engineering life.
24-09-2020	Volunteer to leader It's a webinar	The session handle how can a volunteer become a good leader.
25-09-2020	Auxilium skill development event	The program deals to find out the volunteering skills among themselves by finding out a perfect solution for a critical situation.
27-09-2020	Bangalore days Experience sharing session	An interactive session based on the travelling.
02-10-2020	Iqnew idea pitching Contest level-2	Idea pitching contest like jam, virtual presentation, live presentation.
04-10-2020	How to bring out volunteer in you It's a webinar	An orientation session handles the importance of volunteering and how to be a volunteer.
05-10-2020	Frieda cleaning competition	Cleaning competition associated with Gandhi jayanthi.
07-10-2020	Annual meeting NSS	An interactive session between volunteers and volunteer secretaries to improving the programs during covid19 time period.
08-10-2020	Oliver PPT making competition	PPT making competition conjunction with Gandhi jayanthi.
12-10-2020	VS meet	It was an orientation program for NSS volunteer secretaries to improve their abilities to lead

		their team.
13-10-2020	VS meet2	It was an orientation program for NSS volunteer secretaries to improve their abilities to lead their team.
18-10-2020	How to find leader in you It's a webinar	An orientation session handles the leadership quality in each volunteers.
23-10-2020	Sannadhasena coordinators training	The session deals with the training of covid-19 pandemic volunteers
24-10-2020	General orientation	It gives the lesson about how to become an excellent NSS volunteer.
25-10-2020	Engineering life #3 It's a webinar	An orientation session deals the engineering life.
26-10-2020	Sanndhasena coordinators training	The session deals with the training of covid-19 pandemic volunteers
31-10-2020	Keraleeyam Quiz Competition	Conducted a collage competition as a part of Kerala Piravi day celebration.
01-11-2020	Thulika Kerala piravi day celebration	The session handles the importance and origin of the language in Kerala.
03-11-2020	GOD'S OWN COUNTRY Mobile Photography Contest	It was a photography contest conducted on the topic of keralathanima.
03-11-2020	Iqnew Idea pitching Contest-final round	Idea pitching contest like jam, virtual presentation, live presentation.
04-11-2020	Frikτος writing competition	Writing competition based on the topic creepiest or the scariest experience you ever had.
05-11-2020	Data entry DATA entry at government medical college Kozhikode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
08-11-2020	Drop the gift of life Awareness of blood donation	The session handles with the importance of blood donation.
09-11-2020	Ukwazi Placards making competition	It is a placard making competition based on the theme cancer awareness.
11-11-2020	RD to Army Pre-rd Selection-Training session	Interactive session handle with the selection ad preparation for pre-RD
14-11-2020	The maze Treasure hunt	It's a treasure hunt that includes puzzle, quiz, tasks etc.
15-11-2020	Academics during pandemic It's a webinar	A session handles with the situation of covid 19 pandemics

		and how that affects the academics in every student.
17-11-2020	Archontas Petition writing competition	A petition writing competition based on the theme of child abuse.
20 -11-2020	Sannadhasena orientation	The session deals with the training of covid-19 pandemic volunteers.
21-11-2020	Data entry Data entry at Government medical college Kozhikode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
22-11-2020	Sannadhasena training Training conducted by CEV NSS volunteer at GEC Kozhikode	The session deals with the training of covid-19 pandemic volunteers.
22-11-2020	Creative visualization It's a webinar	An orientation session conducted to visualize the creative mind in every volunteer.
25-11-2020	Data entry DataentryatGovernmentmedicalcollegekozhikk ode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
26-11-2020	Data entry DataentryatGovernmentmedicalcollegekozhikk ode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
29-11-2020	Tele consulting TeleconsultingatGovernmentmedicalcollegekozhikk ode	A Tele consulting work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
29-11-2020	Canva design like a pro	A session deals with the improving their design skills through canvas.
02 -12-2020	Data entry DataentryatGovernmentmedicalcollegekozhikk ode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
04-12-2020	Data entry DataentryatGovernmentmedicalcollegekozhikk ode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
05-12-2020	Data entry DataentryatGovernmentmedicalcollegekozhikk ode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
06-12-2020	Mind therapy during pandemic It's a webinar	The session based on the issues or struggle that students taken during pandemics.

09-12-2020	Data entry DataentryatGovernmentmedicalcollegekozhikkode	A data entry work in Kozhikode medical college because of the shortage of workers due to covid 19 pandemic.
13-12-2020	Gran Maestro Honoring session- highest kick Indian book of record	Felicitations to volunteer of the Indian book of record and Asian book of record winner for highest individual kick.
19-12-2020	Cryptic Game and puzzle competition	A funny games and puzzle competition in order to make the LET students and first year students to know about the virtual nss programs.
20-12-2020	What to do when you are cyber bullied It's a webinar	Session deals with the cyber crime against women and how to handle that all.
24-12-2020	Seven day camp pre-orientation Over all idea about seven day camp	It's an orientation that gives the idea about coming seven day camp.
24-12-2020	To my santa Letter making competition	It's a fun competition related to the event, Christmas. A letter to Santa that includes our wishes and thoughts that says to Santa.
27-12-2020	Ampere It's a webinar	It's a session that handles the home wiring.
29-12-2020	Mental health It's a webinar	Session handles the importance of mental health and significance of mental health and physical health.
02-01-2021	Interpersonal communication It's a webinar	Session deals with the differences in communication between peoples in modern society and traditional society.
02-01-2021	Each one plant one Birthday tree planting challenge	It's a challenge that celebrates on the birthday by planting a sapling.
03-01-2021	Creative maestro It's a webinar	Session deals with the technology related to modern society and the use of materials use to enhance the technology.
06-01-2021	Each one plant one Birthday tree planting challenge	It's a challenge that celebrates on the birthday by planting a sapling.
07-01-2021	Canopus It's a webinar	It's a webinar which deals with the audience were eager to capture the details of how to start-up a business in a sincere way and what are the objectives of a business.
08-01-2021	Each one plant one Birthday tree planting challenge	It's a challenge that celebrates on the birthday by planting a



		sapling.
10-01-2021	Conquer It's a webinar	The session deals with how to overcome the stage fear.
14-01-2021	Orientation Orientation session	Senior volunteers shared their experience and activities done by them and discussed about upcoming activities to be done by the junior volunteers.
16-01-2021	Carbon neutral country It's a webinar	Conducted a programme in remembrance of nature and their protection.
17-01-2021	Be positive It's a webinar	Aiswarya shared their experience and activities done by them and discussed about upcoming activities to be done that lead to success.
23-01-2021	5G Technology It's a webinar	The session makes through an idea about the realities and used of 5G technology in a sincere way.
24-01-2021	Strive to thrive It's a webinar	It's an interactive session about the experience and memories of Arun Sankar p k (public speaker and announcer all India radio).
25-01-2021	Thalkshanam Jam competition	A jam competition held in association with Indian republic day. Jam occurs on the topic of KRISHI KERALATHINTE ADAYAALAM.
26-01-2021	Republic day celebration	Flag hosting and silent pray in remembrance of freedom fighters.
25-03-2021	Law pulse Online quiz competition	An online quiz competition conducted as the part of Indian republic day. It's an opportunity to understand about the law and conspiracy of India.

### Department Association Activities:

Association Name	Activities	Date	Brief description
Association of Civil Engineering (ACE), NIRMITHI	Expert Talk on "Kerala Building Rules-2019".  Brain storm session (Quiz competition)	10-03-2020	Inaugural function - NIRMITHI Expert: Er. K Saleem, Saleem groups, and Chairman, Building Rules Committee (Lens fed)

Loquimur – Let’s speak (Group Discussion competition)		
Webinar on “Journey through Concrete”	23-11-2020	Expert: Er. Shyju Nair, Chief Executive Officer, DH Academy, CochinEx-Senior Territory Manager (South), Technical Services, Ambuja Cement Ltd.
Webinar on “Concrete Mix Design as per IS:10262-2019”	24-11-2020	Expert: Er.Sreenidh V, Senior Manager Technical service, The Ramco Cement Ltd.
Webinar on “Challenges in Making Durable Concrete”	28-01-2021	Expert: Er. SajithBhaskar R, deputy Manager Technical service, UltraTech Cement Ltd.

**PTA:**

Activities	Date	Brief Description
Appointment of security staff	March 2021	Rs.15,000/- as remuneration
Implementation of light board	Jan 2021	For effective online teaching
Zoom platform purchase	Jan 2021	For conducting online meetings
Conducted Bridge course for MCA and B.Tech	Sept 2020& Oct 2020	Remuneration given to resource persons
Admission 2020 related activities	June 2020 to Sept 2020	All expenses met from PTA fund
NSS Camp & Faculty remuneration	Dec 2019	Given remuneration to faculty and financial support for NSS 7 days camp
Exhibition at Madappally college	July 2019	Given sponsorship amount
Hospital expenses	Oct 2019 to March 2021	Students hospital expenses met from PTA

**Alumni:**

Activities	Date	Brief Description
Alumni Scholarship	August 2020	Students with good academics and poor financial backgrounds are awarded alumni scholarships. Duringthe academic year,8

		students were given alumni scholarships, and a total amount of Rs 120000/- has been expended under this head.
Maintainance work of basketball and shuttle-badminton court	May 2021	Painting work for basketball court and shuttle-badminton court has been carried out by spending Rs 18510/-. Around Rs 7000/- has been spent for welding-related works
Expert talks for students by Alumni	September 2020, November 2020, January 2021	During the tenure, 3 expert talks were handled by alumni working in prestigious organizations
First year orientation program by Alumni	November 2020	Mr. Pradeesh Madhavan, Scientist in Controls and Digital Electronics Group, URSC Bangalore, delivered inspirational talks in the induction programs
Registration of Alumni Association	March 2021	A bye-law for the association has been prepared, and with all the supporting documents, it was given in the hands of an advocate for registration.
Construction of open-air stage and playground	January 2021	Construction of an open-air stage and playground is the major work proposed by the committee during the tenure. The plan and estimate of the open-air stage and playground were created. The estimated cost is Rs 13 lakhs. and we completed the tendering process, and the construction work started on April 2021

#### **Incubation Centre/ Entrepreneurship Development Centre (EDC):**

<b>Activities</b>	<b>Date</b>	
IQNEW – Idea Pitching Contest Prelims	20.09.2020	Idea pitching contest conducted among engineering students all over Kerala. Conducted in two rounds.
IQNEW – Idea Pitching Contest Finals	29.10.2020	

#### **Start-ups:**

Nil

#### **MoU:**

Nil

#### **FDP Conducted:**

Title	Department	Date	Funding Source
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Online FDP on “Advances in Construction Technology”	CE	2 <sup>nd</sup> to 6 <sup>th</sup> February 2021	TEQIP-II
Electric Vehicles : Charging & Challenges	EEE	05 Feb 2021 – 09 Feb 2021	TEQIP - II
FDP on “Block chain technology and cyber security”.	CSE	16/03/2021 to 20/03/2021	TEQIP II
3 days online workshop on “ Android Application Development”.	CSE	09/01/2021 to 11/01/2021	TEQIP II
Hands on Workshop on “Machine Learning”.	CSE	18/3/2021 to 20/3/2021	TEQIP II
Recent Trends in Image Processing	ECE	25/3/2021 to 27/3/2021	TEQIP II

### Professional Body Activities:

IEEE : Student Chapter of CSI and PES is started in Dec 2020 and Jan 2021 respectively

Professional body	Activities	Date
IEEE	Why Me? Sharing the experience as IEEE volunteer	7 <sup>th</sup> July 2020 -6 <sup>th</sup> Aug (10 sessions)
	Fledge1.0 Presentation on Latest rechnologies by Volunteers	2 <sup>nd</sup> Aug -18 <sup>th</sup> Aug (18 sessions)
	Alohomora - Webinar on ui/ux designing	11 <sup>th</sup> Sept 2020
	Blitz -Webinar on “ How to Develop your Engineering Career”	12 <sup>th</sup> Sept 2020
	VIRAGO – “He about She”	13 <sup>th</sup> Sept 2020
	Just 2 Talk'- on Engineering Life Expectations & Reality Faced By You	17 <sup>th</sup> Sept 2020
	TRANSFIGURATION -A 5day skill development event	16 <sup>th</sup> Sept 2020-20 <sup>th</sup> Sept 2020
	Trivial - Quiz competition on Kahoot platform	6 <sup>th</sup> Oct 2020-IEEE day
	GNOSIS – Quiz competetion	7 <sup>th</sup> Oct 2020
	Logo Designing competition	4 <sup>th</sup> -7 <sup>th</sup> Oct 2020
	XENIA - blog writing competition.	9 <sup>th</sup> -16 <sup>th</sup> Oct 2020
	Colloquy - Interactive session with our alumni	11 <sup>th</sup> Oct 2020
	SMARTACUS- find a personality with some clues.	13 <sup>th</sup> Oct 2020
	Soft Skill development	15 <sup>th</sup> Nov 2020
yp talk on MATLAB SIMULINK.	20 <sup>th</sup> Nov 2020	

	yp talk on WEB HOSTING AND INFRASTRUCTURE	22 <sup>nd</sup> Nov 2020
	Poster Designing using PS & AI	30 <sup>th</sup> Jan 2021
	RASSVET – Introductory program of elected members to volunteers	6 <sup>th</sup> Feb 2021
	CELESTA- Science Week celebrations includes QFIESTA-Quiz, FINAL TOUCH-science fiction movie review competition, ESCRITOR-Article writing competition and STEREOSCOPE-Tech talk (YP TALK)	21 <sup>st</sup> Feb 2021-28 <sup>th</sup> Feb 2021
WIE	Noesis - Video contest on topic “my college life as a Wie member	11 <sup>th</sup> Oct 2020
	KNOW WIE Webinar for understanding importance of WIE	20 <sup>th</sup> Feb 2021
	C-FRESH (WIE)—March 15th-17th 3 Days offline workshop on c-programming.exclusively for 1 <sup>st</sup> years	15 <sup>th</sup> - 17 <sup>th</sup> Mar 2021
CSI	HALF TALK- importance and relevance of being an IEEE CS society member	10 <sup>th</sup> Jan 2021
	GIT STARTED- A week on git and git hub.	24 <sup>th</sup> Jan 2021 -
	DRIZZLE - Presentation competitionExclusively for girls	16 <sup>th</sup> Feb 2021
PES	EVOICATION -Remembering the legends by IEEE PES Kerala Chapter includes the following programs DISERTATION - Book review , ARDENT- Creative writing, ESPIRE: Virtual presentation,.ESQUISSE-Caricature competition,.POTENCIA-Hackathon, .FRIVOLOUS-Quiz	17 <sup>th</sup> Jan -23 <sup>rd</sup> Jan 2021
	IEEE PES SBC INAGURATION	26 <sup>th</sup> Jan 2021
	Quiz competition on Clen energy	14 <sup>th</sup> Jan 2021
	Poster design competition -Topic : Clean energy	15 <sup>th</sup> April 2021
	Just speak (PES) on Clean Energy revolution	15 <sup>th</sup> April2021

## VI. Receipt &Expenditure for the year 2020-21:

### Capital Expenses:

Land	0
Machinery, Tools & Equipment	0
Computer & Accessories	34750
Furniture & Fixtures	0
Library Books	0
Total	34750

### Revenue Expenses:

Revenue Receipts		Revenue Expenditures	
Particulars	Amount	Particulars	Amount
	2020-21		2020-21
Tuition Fees	29756030	Administrative Expenses	171254
Special Fees	2769323	Salaries & Allowance	56834769
Admission Fees	120400	Electricity charge	712320
Application Fees	8400	Others	650633
Other Receipts	120075		
Total	32774228		58368976

### Capital Income & Expenditure:

Capital Income: Nil

Capital Expenditure: 34750

Other Income and Expenses if any: Nil

### CONSOLIDATED R & D (2020-21)

Particulars	Amount (Rupees)
Revenue Receipts	32774228
Revenue Expenditure	58368976
Revenue Surplus/Deficit	-25594748
Capital Receipts	0
Capital Expenditure	34750
Capital Surplus/Deficit	-34750
Net Surplus/ Deficit	25629498

## VII. Unique Achievements during the current year

### Ranks:

Nil

### Awards:

1. Best Research Award (Deepthi K): International Research Awards on New Science Inventions, NESIN 2020 Awards.

### Publications:

1. Surya T. V; Santhosh G. Thampi, "Performance Evaluation of Vertical Subsurface Flow Constructed Wetlands in Waste water Treatment", Second ASCE India Conference CESIDE 2020, March 2-4, 2020, Kolkata, ISBN: 978-93-5396-500-6.
2. Sahieen Syed Meeran; MahadevanShanmugam; Aadithya Renjith ThekkeveetilTiruvoth. "Farmers Perception, Acceptance and Implementation Factor towards Soil and Water Conservation Measures." Volume. 5 Issue. 10, October - 2020, International Journal of Innovative Science and Research Technology (IJISRT), [www.ijisrt.com](http://www.ijisrt.com). ISSN - 2456-2165, PP :- 1221-1226.

3. Deepthi, K., & Jereesh, A. S. (2020). "Inferring Potential CircRNA-Disease Associations via Deep Autoencoder-Based Classification," *Molecular Diagnosis & Therapy*, 1-11. Springer, (SCI).
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10. Shibili T, Baby Manjusha P , Sequential Pattern Miner to Identify the Research Area Shift of Researchers, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 03| Mar 2021
11. R. Jishnuraj, Sherin, K. R., Rajan, S., Ambili, M. P., & Deepthi, K. Drug-Disease Association for Drug Repositioning Using Machine Learning, International Journal of Innovative Science and Research Technology (IJSR), ISSN No:-2456-2165, PP: 1322-1324.
12. Ambili .M.P., E-Banking Security and Authentication Using Multilevel QR, International Research Journal of Engineering and Technology (IRJET) , e-ISSN:2395-0056 p-ISSN :2395-0072.
13. Ambili.M.P. Observing Health Condition of Patient Notifying System , International Journal Of Research and Analytical Review (IJRAR) March 2021, Volume 8, Issue 1 , e-ISSN 2348-1269 , p-ISSN 2349 -5138.
14. Ambili.M.P. , Meera Chandren A review on Food Quality Detection , International Journal of Creative and Research Thoughts (IJCRT) ISSN -2320-2882
15. Deepa R. -Retinal micro aneurysm detection by CNN , in IOP Conference series : Material science and Engineering, Vol .1999, no.1, p.012057, IOP publishing, 2021
16. Rajalekshmy K.D.-A SURVEY ON CURRENT TECHNIQUES IN AUTHORSHIP IDENTIFICATION: International Journal of Future Generation Communication and Networking Vol.13, No.4,(2020), pp.822-827

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**New Projects:**

Nil

**Patents:**



Nil

## **VIII. Conclusion**

The College of Engineering Vatakara, one of the leading institutions under CAPE is now a leading Technical Education in Malabar Area, considering the infrastructure, courses and the standard. Based on the Academic programmes and the co-curricular activities, this college have achieved a good reputation among the other Engineering colleges in Malabar area as a whole. A new diploma program- Automation and robotics will be started in the next academic year. The ISO Certification, NAAC Accreditation etc. are definitely a blessings to the college to have a high reputation among other such institutions.

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