

# COLLEGE OF ENGINEERING KIDANGOOR

## ANNUAL REPORT (2020-21)

### I. BRIEF HISTORY OF THE COLLEGE

Government of Kerala vide GO MS/136/2000 Higher Education dated 18/02/2000 accorded sanction for the establishment of the College of Engineering Kidangoor. The CUSAT issued No Objection Certificate for starting the colleges under the aegis of CAPE. AICTE issued the viability certificate for starting the college. College of Engineering Kidangoor was established during the year 2000-2001 & the institution was in the 20<sup>th</sup> year of functioning during 2020-21 with full fledged facilities to run B. Tech courses in 4 disciplines & M. Tech in 2 disciplines.

#### Land and Location

The college campus extends over 25 acres of land situated at Kidangoor Panchayat, Meenachil Taluk, Kottayam District.

#### Board of Governors

Chairman	:Dr.K.Gopakumar, Professor, Dept of Electronic Systems Engineering, Indian Institute of Science, Bangalore.
Members	:Prof(Dr)T.K.SureshBabu, Professor, Mechanical Engineering, NIT, Calicut. Dr.A.K.Asraff, Group Director, Structural Dynamics &Analysis Group, LPSC Valiamala,Trivandrum.
Ex-officio	:Director CAPE, Member (Ex-officio) Director SPFU, Member (Ex-officio)
Government nominee	:Member(Ex-Officio) Co-operation Dept. Not below the rank of Joint Secretary Member(Ex-Officio) Govt.Finance Dept. Not below the rank of Joint Secretary
University nominee	:Registrar KTU
AICTE nominee	:Dr.Ramesh Unnikrishnan, Regional Officer & Director, AICTE-South Western Regional Office,Tvm.
Representatives(College)	: Dr. B.V.Mathew, HoD, CE,CEK, Dr. Indhu P.Nair, HoD EEE,CEK
Member Secretary	:Dr.K.G.Viswanadhan,Principal,CEK.

#### College Council: (Details of Office bearers)

Chairman-Principal, 4 HODs, Librarian, faculty in charge, Physical Education, Mr. Joby James, Assistant Professor,ECE (Elected Member).

## II. ACADEMIC ACTIVITIES

### AICTE Approval

The approval of the College of Engineering Kidangoor was accorded by the AICTE as per Order No. F No.770-54-36/ET-NDEG/2000/V dated 28/07/2000 and Extension of approval (EOA) by F No South West/1-7007676095/2020/EOA dated 30/04/2020 for the academic year 2020-21.

### University Recognition

Recognition to the College of Engineering Kidangoor was accorded by the CUSAT as per Order No. AC, C3/1088/2000/H. Edn dated 18/08/2000

Recognition to the College of Engineering Kidangoor was accorded by the APJ Abdul Kalam Kerala Technological University (KTU) as per Order No. KTU/A/593/2015 dated 15/05/2015. As per Order No. KTU/A/456/2015 dated 30/06/2020 for the academic year 2020-21, the KTU has been given Extension of approval of the academic year 2020-21.

### 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 branch in 2004, B. Tech course in Civil Engineering branch in 2010 and 2 M. Tech courses in Wireless Technology and Computer and Information Science in 2014.

### Academic Programmes

The college offers 4 B. Tech 2 M.tech degree programmes

Sl. No.	Programmes	No.of seats sanctioned	Head of the Department
1.	B .Tech in Civil Engineering	60	Dr.B V Mathew, Professor
2.	B Tech in Electrical & Electronics Engineering	60	Dr. Indu P Nair, Associate Professor
3.	B .Tech in Electronics & Communication Engineering	60	Dr. Rajeesh J, Professor
4.	B Tech in Computer Science & Engineering	90	Dr. Ojus Thomas Lee, Associate Professor
5.	M. Tech in Computer & Information Science	18	Dr. Ojus Thomas Lee, Associate Professor
6.	M. Tech in Wireless Technology	18	Dr. Rajeesh J, Professor

### Working hours

Working hours for the academic programmes is from 8: 30 am to 5: 00 pm and for the administrative work is from 8.30 am to 5.00 pm.

### Admission during the last 3 years

Branch	Sanctioned					NRI	Total Sanctioned	Admitted				NRI	Total Admitted
	Merit	Mgt	TFW	Reservation	Total Sanctioned			Merit	Mgt	TFW	Reservation		
CE	36	19	3	2	3	63	34	11	3	0	0	48	
CSE	36	19	3	2	3	63	35	4	3	0	3	42	
ECE	36	19	3	2	3	63	19	1	3	0	0	23	
EEE	36	19	3	2	3	63	18	0	3	0	0	21	
EI	36	19	3	2	3	63	11	0	0	0	0	11	
IT	27	16	2	1	2	48	5	0	0	0	0	5	

		2018-19										
Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	Reservation	NRI		Merit	Mgt	TFW	Reservation	NRI	
CE	36	19	0	2	3	60	39	1	0	0	3	43
CSE	36	19	0	2	3	60	35	5	0	0	3	43
ECE	36	19	0	2	3	60	17	1	0	0	1	19
EEE	36	19	0	2	3	60	22	0	0	0	0	22
EI	30	0	0	0	0	30	4	0	0	0	0	4
IT	30	0	0	0	0	30	3	0	0	0	0	3
		2019-20										
Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	Reservation	NRI		Merit	Mgt	TFW	Reservation	NRI	
CE	33	19	3	2	3	60	27	5	3	1	0	36
CSE	49	30	5	4	2	90	50	22	5	3	0	80
ECE	33	19	3	3	2	60	25	0	3	0	0	28
EEE	33	19	3	3	2	60	22	1	3	0	0	26
WT(PG)						18						6
CIS(PG)						18						2

### Total number of Students admitted in the current academic year 2020-21

Branch	Sanctioned					Total Sanctioned	Admitted					Total Admitted
	Merit	Mgt	TFW	Reservation	NRI		Merit	Mgt	TFW	Reservation	NRI	
CE	39	14	3	1	3	60	34	-	-	1	2	37
CSE	58	21	5	2	4	90	64	23	-	2	4	93
ECE	39	14	3	1	3	60	27	-	-	-	1	28
EEE	39	14	3	1	3	60	22	-	-	-	3	25
WT(PG)						12						3
CIS(PG)						18						5

### Result Analysis

Year of Admission	Branch	Total Registerd	Total Pass	Pass %
2014 Admission	CE	65	59	90.76
	CSE	64	42	66
	ECE	56	31	55.35
	EEE	55	40	72.72
	EI	36	25	69
	IT	28	17	60.71
	<b>Total</b>		304	214
2015 Admission	ECE	47	31	65.95
	CSE	42	23	54
	CE	61	36	59.02
	IT	12	4	33.33
	EEE	35	15	42.86
	EI	29	9	31

	Total	226	118	52.21	
2016 Admission					<b>S8 Only</b>
	ECE	44	18	41	95.45
	CSE	45	25	55.5	97.7
	CE	64	31	48.4	100
	IT	18	8	44.4	94.4
	EEE	37	18	48.6	97.2
	EI	22	9	40.9	100
<b>Total</b>	<b>230</b>	109	47.3	97.45	

### Placement Status for the Current Academic year

Placement officer: Mr. Syamesh K G, AP in ECE

Total Students Placed: 15

Total offers received : 15

Sl No	Activity	Date	Trainer details	Target Audience
1	TCS Ninja Specific training	17.10.20 to 22.10.20	FACE Coimbatore	S7 students (2017-21)
2	TCS NQT interview training	11.11.2020	FACE Coimbatore	17 students from S7 who has cleared TCS test.
3	Aptitude and Analytical training	07.04.2021, 10.04.2021, 11.04.2021, 17.04.2021, 18.04.2021, 24.04.2021 and 25.04.2021	FACE Coimbatore	S6 students (2018-22)
4	Participated in Training for CS/IT students organized by Mahindra Naandi (Supported by KTU)	Nov-Dec 2020	Mahindra Naandi (Supported by KTU)	S7 CS/IT

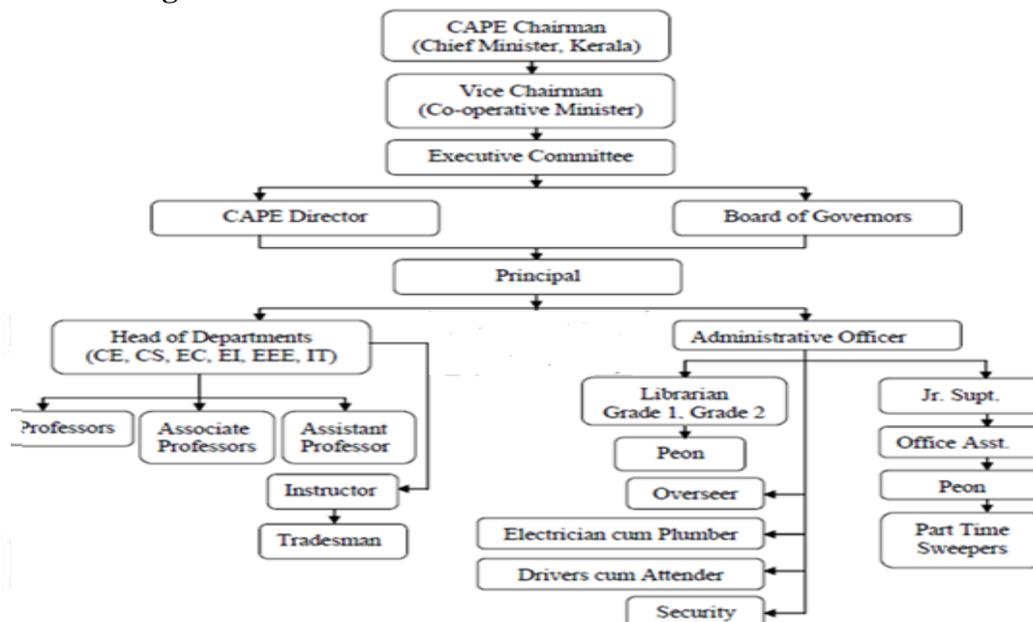
List of companies visited: Online mode only.

Elevation, 6D technologies, Algomox, Quest Global etc have scheduled pooled drive for us.

\*Nearly 20 students are awaiting final results from Infosys, 6D technologies, Algomox, Quest Global, Marmag, Speridian Technologies etc.

### III. Man-power

#### Structure of Organisation



**New appointment details: Nil**

**Staff position as on 31-02-2021**

Sl.No.	Post	Regular	Contract	Adhoc/ Daily wages	Apprentice Trainee	Total
	<b>Total</b>	<b>76</b>	<b>4</b>	<b>26</b>	<b>2</b>	<b>108</b>

#### **IV. Facilities available**

##### **Library**

<b>Facilities available in the Library</b>		
Library Area	900 M <sup>2</sup>	
Working Time	08.30 am to 05.30 pm	
Sl.No.	Resources available	No. of Items available during the year 2020-2021
1	Books	25913
2	E-Journals	EBSCO Engineering Collection(2464 titles)
3	Printed Journals	60
4	Magazines	0
5	News Papers	6
6	ASCE	35 Journals

##### **Laboratory facility**

Sl. No.	Name of the Department	Name of Laboratory/Workshop	No. of experiments to be done using the facilities
1.	<b>Computer Science/Information Technology</b>	6Labs	70
2.	<b>Electronics &amp; Communication Engineering</b>	8 Labs	100
3.	<b>Electrical &amp; Electronics Engineering</b>	9 Labs/1workshop	110
4.	<b>Civil Engineering</b>	9Lab/ 1 Workshop	96
5.	<b>Electronics and Instrumentation Engineering</b>	5 labs/ 1Workshop	79

**Hostel facilities** Construction Completed, Building inaugurated on October 3<sup>rd</sup> 2020.

##### **Canteen Facility**

Area	Seating Capacity	Fuel used(LPG,Firewood)
260 sq.meter	140	LPG and Firewood

##### **Building and other infrastructure details**

Building	Area	No. of class rooms	Status
Main Block	2487.00	Computer Centre, Office, Physics Lab Seminar Hall etc.	Completed
EC/EI Block	2109.00	EC/EI Class rooms, Labs&Staff room, Chemistry Lab (EI Block)	Completed
Electrical Block	11705.00	Electrical Class rooms, Labs &Staff room & DASH room	Completed
CS/IT Block	1705.00	CS/IT Class rooms, Labs &Staff room	Completed
Civil Block	2149.00	Civil Class rooms & Staff room	Completed
A Block	300.00	Mechanical workshop & Drawing hall	Completed
B Block	300.00	Canteen	Completed

C Block	300.00	Electrical workshop & Electrical machines lab	Completed
Library Block	1322.00	Library Block and Placement Cell	Completed
Hostel	2061.00	Construction Done, Need to Furnish	Ongoing

### Sports facility

In the Main Block a 240square feet room is allotted for Physical Education purpose which is nearby the Co-Operative Store. The sports equipments are kept here and indoor games like caroms, Chess etc. are conducted there. Three badminton Courts are temporarily made in the auditorium and one Volley Ball court is made nearby the canteen. A mini ground is available to conduct sports and other games like cricket and football.

### Co-operative Store

A centralised store is functioning in the administrative block. From this store, stationery items, Work register, Students Feed back form etc. supplies to all departments as and when they needed.

### Transportation facility

For transportation to students PTA operated bus services (4 college owned buses) students are using this facility during contact classes and university exams.

### Internet & Wi-fi facility

Internet facilities: 50mbps; College is wi-fi enabled campus

### Auditorium

Auditorium	Area	Seating Capacity
Plinth	907.07m <sup>2</sup>	1000
Carpet	876.62 m <sup>2</sup>	
Porch	66.20 m <sup>2</sup>	

## V. Co-curricular activities

### Professional Bodies

#### a. IEEE

Programs conducted under IEEE SB CE Kidangoor during the academic year 2020-2021

Sl.No.	Program	Date	Venue	Members
1.	EXECOM meeting	13/01/2020	Main seminar hall	EXECOM members
2	Aptitude test	31/01/2020-31/07/2020	Online	Students of CEK
3	Weekly meetings	Weekly	Online	10-15
4	Spectrum talks	Weekly	Online	10-15
5	Grandir 20	21/11/2020	Online	Students of CEK
5.1	Grandir 20: IEEE Awareness Session	24/11/2020	Online	35
5.2	Grandir 20: Online Treasure Hunt	24/11/2020	Online	40

5.3	Grandir 20: Content Writing Competition	30/11/2020	Online	10
5.4	Grandir 20: Résumé Building Competition	01/12/2020	Online	9
5.5	Grandir 20: Session on 'Societies in IEEE'	02/12/2020	Online	20
5.6	Grandir 20: IEEE Trivia	03/12/2020	Online	25
6	Orientation program	18/12/2020, 19/12/2020	Online	150

**Received approval for the formation of two IEEE societies in Kerala section for IEEE COLLEGE OF ENGINEERING KIDANGOOR(1. IEEE INDUSTRY APPLICATIN SOCIETY AND 2. IEEE COMPUTER SOCIETY)**

#### **b. ASAP**

Activities include 1.Various online classes conducted to compensate academics due to COVID pandemic.Ten sessions handled by CEK faculty. 2.28 students completed GOOGLE – ACE certification program. 3.CEKidangoor submitted student details for ASDC Placement drive ASPIRE 2020. 4.ASAP organised Faculty development program forgetting Educator badge to coordinate SALE FOR CE course. It is attended by faculty incharge of SALE FOR CEcourse. 5.Faculty incharge of SALE FOR CE achieved Educator badge. 6.Attended zonal meeting of nodal officer conducted by ASAP.7. Team from CE Kidangoor selected to Grand Finale of Reboot Kerala Hackathon 2020. 8. AIML(Artificial intelligence & machine learning) course batch formation process,entrancetestandselectiontobedoneonOctober2020.

#### **Consultancy Projects**

Sl.No	Name of Lab	Staff in charge	Work done	Project	Cost
1	Material Testing Lab	Mr.Appu P	Cube Test	Kerala Water Authority LSGD	12,000/-
<b>TOTAL</b>					<b>12,000</b>

#### **Research & Development activities**

All the AICTE funding proposals and CERD seed money proposals from faculty and students are reviewed and scrutinized by this committee before sending coordinated by Dr. P. G. Tina. Number of CERD proposals submitted this year are EI - 1, EEE – 2 and ECE – 1.

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

All consultancy work and online/offline external exams are conducted under CCE coordinated by Joby James AP/ ECE.

#### **Counseling cell**

Faculty in Charge: Dr. Indhu P. Nair

Counselor: Mr. Anoop

No Activities due to COVID 19.

#### **Activities conducted by Student council**

Conducted a workshop “ALMA CONNECT” – voice of alumni – as an interactive session of EEE Alumni with the first years. Conducted an online arts festival for CEK students.

Almost 120 students participated in the events. Sports - A cricket Net Cage is constructed in the college which will help the students to practice

### Staff Club

There is a well-organized staff club that will take many lead roles in conducting onam, Christmas celebrations etc., Due to pandemic situation much programs are not conducted. Collected Rs. 75000/- from staff and donated to Pradeesh/ Tradesman/ Mechanical Workshop for his treatment.

### College Development Committee

To plan and monitor various developmental activities of the college committee CDC is functioning under the chairmanship of Mons Joseph, MLA, Kaduthuruthy and Convener, Principal, College of Engineering, Kidangoor. Other members are Panchayat President, Ward Member, SI of Police, HODs and Student Union Chairman.

### Anti-Ragging Committee

#### Convener

Dr Rajeesh J ,HOD ECE

#### Members

1. Lissy Abraham, Member Grama panchayat
2. Siby Thomas, Circle Inspector
3. Abhijith R., Chairman College Union
4. Dr. Mathew B V , HOD, CE

5. Mr. Suvin Sunder, AO
6. Sunish Kurian , HOD, Applied Science
7. Ojus Thomas Lee, HOD, CS
8. Dr .Indu P Nair, HOD, EEE
9. Binoy Kumar KS, Reporter Dheshabimani.
10. Jayan KS, Member Care Unit

### Grievance & Appeal Committee

#### Convener:

Dr. B V Mathew , HOD, CE

#### Members:

1. Dr. Indu P Nair , HOD, EEE
2. Dr. K. S. Angel Viji , ASP, CSE

### NPTEL Activities

CSE		ECE		CIVIL		EEE	
Faculty	Students	Faculty	Students	Faculty	Students	Faculty	Students
5	32	-	6	1	17	7	2

**NSS activities-** Totally 27 activities were conducted including Online Training Programme, Mask Making Challenge, Online Music Day 1& Day 2, Pencil Drawing Competition, Quiz Competition, Onam Celebration, Maveli Drawing Competition, Mavelikkoru Kathu Competition, Ormayile Onam, Sundarikku Pottu Thodal Competition, Poster Making, Quiz Competition Engineers Day, Poem Writing Competition etc.,

### Department Association activities

CSE(LANCE&SWIFT)	ECE	CIVIL	EEE (EMERGE)
conducted Webinar on “Role of Statistics in analysing Reliability of Engineering Systems” on 10/09/2020. 47 students participated.	The ECE association joint with 3 Alumni members of the College arranged interaction with B.Tech. 2020 admissions. The association arranged farewell to the 2018-2020 M.Tech. students.	Conducted a webinar on career opportunities in civil engineering	Conducted a workshop on “Learn the essence of Electrical Engineering by applying the concepts at home” – on 8th Aug 2020, 220 students from various institutions participated in the workshops.

## PTA activities

Executive Committee Members are President-Dr.K.G.Viswanadhan,Principal, Vice-President(P.S.Yohannan), Secretary(Sunish Kurian), 4 faculty members and 4 parent members.

Important Activities carried out:

1. For reducing water shortage in the Campus , a Rain Water Harvesting project in EC Block has implemented by PTA.
2. During this Academic year a webinar on “ How to opt your career path “ taken by Dr.S.Rajoo Krishnan,Former Joint Entrance

Commissioner Govt. Of Kerala, had organised to the students .

3. An amount of ₹30000/- has sponsored by PTA for the students program “LUMIER ‘20”.
4. The inauguration function of our Ladies Hostel was led by PTA and its refreshment expenses has met by PTA.
5. An amount of ₹50000/- has released as financial assistance to a parent who is suffering from severe liver problems.
6. PTA has arranged travelling facilities to the students for the period of classes and examinations during the COVID period

## Alumini

Due to the Covid-19 pandemic, the reunion of Alumni of the College which was usually being conducted in the month of December with name ‘MIST’ was not conducted. Interaction with freshers- “Alumni Connect”Working professionals from industry like Apple Inc., P&G Singapore, VSSC Tvm interacted with B.Tech. first year students (2020 admissions) of CE, CSE, ECE & EEE using Google Meet. Alumni association conducted various technical sessions for students of higher semesters.Arrangements were made to help the family of one of the students of the College who needed financial support for liver transplantation.

## Incubation centre/ Entrepreneurship Development Centre(EDC)

Programmes conducted

1. Five students attended IEDC Summit held on 28/01/2021-30/01/2021 conducted by Adishankara Institute of Engineering and Technology sponsored by KSUM
2. Conducted workshop on building products from campus on 17/11/2020 by Meher M P
3. Conducted workshop on Engineering Demands Design Thinking- Future Approach by Sabarinath, CEO OFB
4. Two startups started working in our incubation centre namely Tinch and Asteroid

## Start-ups

Startup name:Asteroid, Modern waste management system,Jeslin Thampi- CSE

## MOU

MOU with Kidangoor Grama panchayat and KSEB(Solar Power System).

## VI. RECEIPT & EXPENDITURE

Revenu Receipt		Revenu Expenditure	
Particulars	Amount	Particulars	Amount
Tuition Fee	20140205	Administrative Expenses	125006
College Special fees	2510100	Salries & Allowances	46492070
Admsision fees	88250	Building	0
Application fees	4800	Eelctrical Installation	0
Other receipts	359941	Others	157522
<b>Total</b>	<b>2,31,03,296</b>	<b>Total</b>	<b>4,67,74,598</b>

## Capital Expenditure 2020-21

Land	
Machinery , Tools and Equipments	170558
Computer & Accessories	203678
Furniture & Fittings	0
Library Books	0
Total	374233

## VII. UNIQUE ACHIEVEMENT DURING THE YEAR 2020-2021

- 35 Laptops are to be issued to needy, hard working and well performing students through TEQIP fund.
- Admission Committee conducted a workshop on “how to opt your career path?- A guidance from Dr.Rajoo Krishnan S.” on 30th July 2020

Sl.No.	Achievements			
	CSE	ECE	Civil	EEE
1.	Completed the consultancy from Kidangoor Grama Panchayat named HasthaDhi for digitizing the details of people in ward 12	Webinars conducted-3	FDPs attended- 69,	FDPs conducted-2
2	Produced 2 PhD scholars by Dr. K. S Angel Viji	6 paper publications, 1 book publication	FDP conducted-1,	Expert sessions conducted-5
3	Associated with Red Bridge Library UK and PKV library Kidangoor by providing students to mentor students between age 7 to 15 in the training of SCRATCH	The first startup “TINCH”- won the first runnerup in Finastra international Women, s day Hackathon. Students of S8 ECE & EI won award.	Expert sessions conducted-4	Conducted a workshop “ALMA CONNECT” – voice of alumni – as an interactive session of EEE Alumni with the first years.
4	Webinar s conducted-5, FDPs-4, Expert Sessions-2		STTP conducted-1	
5	FDP s attended- 50		Angel Shaju of S4 CE created a record under India book records 2022 entitled “Whistling national anthem while playing tabela”	
6	Papers published-14			

## VII. CONCLUSION

Due to this present pandemic situation, most of the events that have to be conducted are not done. Yet many are conducted in online mode. Hereby submitting the annual report for the academic year 2020-21.

Prepared by  
Dr. K. S. Angel Viji  
IQAC Convener  
CE Kidangoor