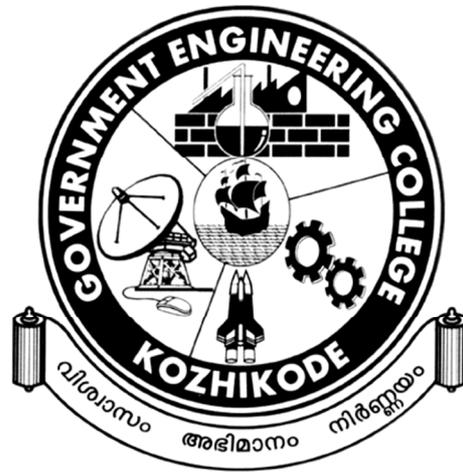


GOVERNMENT ENGINEERING COLLEGE KOZHIKODE

WEST HILL, KOZHIKODE 673 005



ACTIVITY REPORT 2023-24

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1. INTRODUCTION

Government Engineering College Kozhikode has started functioning in 1999 at West Hill, Kozhikode. The institute was started by the Government of Kerala with a view to catering to the needs of man-power in technology for the country. The institute was affiliated to University of Calicut, which was set up with a motto to nurture the talents in northern Kerala. The College imparts high quality technical education and also focuses on the overall development of the students. State-of-the-art facilities are available in the College and the facilities are updated regularly using funds received from State Government and Central Government. Presently the institute is affiliated to APJ Abdul Kalam Technological University and approved by AICTE. The institute offers Six B.Tech courses (Applied Electronics and Instrumentation Engineering, Civil Engineering, Chemical Engineering, Computer Science & design, Electronics & Communication Engineering and Mechanical Engineering) with an annual intake of 69 students through State Level Entrance Test and 6 students through Lateral entry per each branch. The Institute also offers four M.Tech courses (Computer Aided Process Design offered by Dept. of Chemical Engg. Structural Engineering offered by Dept. of Civil Engg., Signal Processing offered by Dept. of Electronics Engg and Energy System Analysis and Design offered by Dept. of Mechanical Engg.) with an annual intake of 18 students. The computer science and engineering department of GEC Kozhikode was established in the year 2022 with a new generation B.Tech programme in "Computer Science and Design". The programme is a good blend of the fundamentals of computer science & engineering and the essential design principles.

The institution has facilities that include central computing facilities, well stocked central technical library, online access to international journals under INDEST-AICTE Consortium, and a campus network. The major strength of the institution is its highly qualified faculty (majority having Doctoral or Post Graduate degree) possessing academic experience and industrial exposure. The Institution is located in the heart of the Calicut city, well connected by a network of road, rail and airport. The staff strength and the quality of student input are medium. The major weakness of the institute is identified as limitations in infrastructural facilities.

The institution is striving constantly for improving and being at par with the institutional counter parts not only in the state, but even in the country. Several academic and co-curricular activities are organized every year to bring up the institution as a Centre of Excellence. Faculty have active involvement in various research areas and many have to their credit articles published in reputed National/ International Journals and conferences. Interactive programs with pioneer industries in and around the state have also been conducted. Interaction with experts of various fields of knowledge is extremely helpful in motivating and enlightening the students and faculty. Visiting faculty scheme is fruitfully utilized to provide talks and

workshops handled by technical experts for the benefit of students. The institution being one among the nineteen project institutions of TEQIP phase II, the academic quality improvement activities involving students, faculty and staff were in full swing during the academic year.

This report presents a summary of the various activities organized and conducted in the institution during the academic year 2023-2024.

2. ACTIVITIES OF DEPARTMENTS

The B.Tech courses Applied Electronics and Instrumentation Engg. (AE&I) and Electronics and Communication Engg. (EC) are functioning under one single Department. Computer Science & design (CSD) is also functioning in association with the above department with one faculty of Applied Electronics and Instrumentation Department as the coordinator. In addition to this, three engineering departments, viz. Civil Engineering, Chemical Engineering, Mechanical Engineering and one science department viz. Applied Science department are functioning in this institute.

2.1 Department of Applied Electronics and Instrumentation Engineering

2.1.1 Faculty and Supporting Staff

2.1.1.1 Details of Faculty members

Sl. No.	Name	Designation	Qualification
1	Dr. Agnes Jacob	Professor & HOD	PhD
2	Dr. Shajeemohan B. S.	Professor	PhD
3	Dr. Shajahan E S	Professor	PhD
4	Dr. Bindima T.	Associate Professor	PhD
5	Dr. Baburaj M.	Associate Professor	PhD
6	Dr. Abdu Rahiman V.	Associate Professor	PhD
7	Dr. Swapna G	Associate Professor	PhD
8	Abdul Jaleel N.	Assistant Professor	M. Tech
9	Dr. Asha Murali	Assistant Professor	PhD
10	Dr. Gladwin Jose K T	Assistant Professor	PhD
11	Subhija E N	Assistant Professor	M. Tech
12	Dr. Anoop C S	Assistant Professor	PhD
13	Jithesh C. P.	Assistant Professor	M. Tech
14	Dr. Jesy P	Assistant Professor	PhD

15	Saritha E	Assistant Professor	M. Tech
16	Sreeram R	Assistant Professor	M. Tech
17	Anju S Anand	Assistant Professor	M. Tech
18	Harikrishnan P. R.	Assistant Professor	M. Tech
19	Binoy K P	Assistant Professor	M. Tech
20	Ranju K V	Assistant Professor	M. Tech
21	Dr. Muhammed Fasil C	Assistant Professor	PhD
22	Dr.Saritha M.	Associate Professor(EEE)	PhD
23	Babitha Nair B.	Assistant Professor (EEE)	M. Tech
24	Shilpi M	Assistant Professor (EEE)	M. Tech
25	Sabeeh Ahammed M T	Assistant Professor (Adhoc)	M. Tech
26	Sreeram M	Assistant Professor (Adhoc)	M. Tech
27	Anagha Sudhakar	Assistant Professor (Adhoc)	M. Tech
28	Ambili R	Assistant Professor (Adhoc)	M. Tech
29	Jayasree T C	Assistant Professor (Adhoc)	M. Tech
30	Anjana Narayanan	Assistant Professor (Adhoc)	M. Tech

2.1.1.2 Details of Technical Staff

SI No	Name	Designation	Qualification
1	Mr. Harish Kumar C. H.	Instructor Gr1	M. Tech, B-Tech ECE
2	Mrs.Esther P U	Instructor Gr1	B-Tech-ECE
3	Mr. Abid Tharavattath	System Analyst	B-Tech-CSE
4	Mr. Sumesh E.	Computer Programmer	B-Tech-CSE
5	Ms. Mallika M. T.	Trade Instructor Sr.Grade	ITI-Electronics
6	Mrs. Sudha T.	Trade Instructor Sr.Grade	ITI-Electronics
7	Mr.Suresh G	Trade Instructor Grade II	Diploma-Electrical
8	Mrs. Salma A. P.	Trade Instructor Sr.Grade	ITI-Electronics
9	Mrs.Smitha E	Trade Instructor Grade II	ITI-Electronics
10	Mrs.Sijila K	Tradesman	M. Tech, B-Tech ECE
11	Mr.Sethumadhavan K N	Tradesman	Diploma -Electronics & Telecommunication

12	Ms. Roshmi V.	Tradesman	B. Tech ECE
13	Mrs. Bindu K.	Tradesman	Diploma- Electronics
14	Mrs. Aysha Firana K. P.	Tradesman	B. Tech ECE
15	Mr. Purushothaman E.	Tradesman	VHSE
16	Mr. Rajesh C.	Tradesman- Computer	BA English,Diploma-Computer
17	Mr. Vinodan P. P.	Tradesman- Computer	ITI-Computer
18	Mr. Mridul K	Tradesman- Electrical	B-Tech-Electrical
19	Mr. Santhosh A K	Tradesman- Electrical	ITI-Electrical
20	Mrs.Anusha K	Tradesman(Ad-Hoc)	Diploma-AEI, ITI-Instrumentation

2.1.2 Academic Performance

A brief account of the various academic activities and their outcome are dealt in this section.

2.1.2.1 Results of University Examinations

B. Tech Applied Electronics and Instrumentation Engineering

Batch	S1			S2			S3			S4			S5			S6			S7			S8			
	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	
2023-27	69	31	45																						
2022-26	57	22	39	57	19	33																			
2021-25	42	17	41	38	15	40	68	12	18	68	26	38	68	28	41										
2020-24	38	30	79	38	28	74	59	34	58	59	37	63	59	23	39	59	40	68	60	46	77				
2019-23	63	56	89	63	62	98	69	55	80	69	59	86	69	50	72	69	61	89	68	65	94	68	66	98	

B. Tech Electronics and Communication Engineering

Batch	S1			S2			S3			S4			S5			S6			S7			S8			
	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	
2023-27	69	53	77																						
2022-26	64	50	78	64	55	89																			
2021-25	62	42	68	57	39	68	75	47	63	74	43	58	74	49	66										
2020-24	66	56	85	64	54	84	72	54	75	72	47	65	72	35	49	72	41	57	72	56	77				
2019-23	54	58	91	58	57	98	66	59	89	66	58	88	66	61	92	66	61	92	66	60	91	66	63	96	

M. Tech Signal Processing

Batch	S1			S2			S3			S4		
	T	P	%	T	P	%	T	P	%	T	P	%
2022-24	5	5	100	5	3	60						
2021-23	16	16	100	16	16	100	16	16	100	16	16	100
2020-22	18	18	100	18	18	100	18	18	100	18	18	100

2.1.2.3 Academic Achievements

- Following students of 2019-2023 Batch B-Tech **Applied Electronics and Instrumentation Engineering** secured highest CGPA in the university examinations conducted by KTU

		
KKE19AE031 DENEESA SHIBU CGPA -9.44	KKE19AE008 AKHIL G KURUP CGPA - 9.32	KKE19AE055 SHAFIN SHAJAHAN CGPA - 9.31

- Following students of 2019-2023 Batch B-Tech **Electronics and Communication Engineering** secured highest CGPA in the university examinations conducted by KTU

		
KKE19EC042 ROBIN RAJEEV DANIEL	KKE19EC017 APARNA M S	KKE19EC009 AMRITHA D

CGPA - 9.59	CGPA - 9.40	CGPA - 9.35
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- Following students of 2021-2023 Batch M-Tech **Signal Processing** secured highest CGPA in the university examinations conducted by KTU

		
KKE21ECSP05 BINSIYA C CGPA - 9.25	KKE21ECSP15 STEPHY J S CGPA - 8.99	KKE21ECSP08 GOPIKA A S CGPA - 8.78

- Following Students of 2018-22 Batch B-Tech qualified GATE

Rank	Reg.No.	Name	Semester	GATE Score
1	KKE20EC052	SHIVADA C S	S8 EC	439
2	KKE21EC058	SREENATH P K	S6 EC	429
3	KKE20EC040	NANDANA K	S8 EC	380
4	KKE21EC062	ZEBHA MEHABOOB	S6 EC	375
5	KKE20EC039	N AKSHAY KRISHNA	S8 EC	370
6	KKE21EC057	SRAVANA K	S6 EC	370
7	KKE20EC033	MOHAMMED YOOSAH K K	S8 EC	325
8	KKE20EC073	VISHNU PRASAD	S8 EC	320
9	KKE20EC031	K SWETHA MALIYA	S8 EC	315
10	KKE20AE031	RIYA ROSHAN ROY	S8 AE	355

2.1.2.5 Achievements in Extra-Curricular Activities

- Ms. Lakshmi S Nair, 2020-24 Batch B-Tech Electronics and Communication Engineering student has received Outstanding Student volunteer of IEEE Malabar Subsection award 2023.



- Ms.Navya , 2020-24 Batch B-Tech Electronics and Communication Engineering student has received Outstanding Student Branch Chairperson of IEEE Malabar Subsection Award 2023.



Navya
KKE20EC065

- Mr.Roshin P ,2022-26 Batch B-Tech Applied Electronics and Instrumentation Engineering student has achieved second place in university inter collegiate football Tournament.



Roshin P
KKE22AE047

Ms.Krishna P M ,2023-27 Batch B-Tech Electronics and Communication Engineering student has achieved second place in F zone inhandball Tournament.



Krishna P M
KKE23EC032

2.1.2.6 Online Courses attended by students

Sl No.	Name of the Student	Semester	Name of the course	Duration	Organized by
1	ADWAITH T K	S5 EC	Python For Data Science	JULY - DEC 2023	NPTEL
2	MUHAMMED JASEEL P	S7 EC	The Joy of Computing Using Python	JULY - DEC 2023	NPTEL
3	NAJIYA K	S3 SP	Introduction to Industry 4.0 and Industrial Internet of Things	JULY - DEC 2023	NPTEL
4	RESHMA N	S3 SP	Introduction to Industry 4.0 and Industrial Internet of Things	JULY - DEC 2023	NPTEL
5	SANGEETHA C	S3 SP	Introduction to Industry 4.0 and Industrial Internet of Things	JULY - DEC 2023	NPTEL
6	SHAHANA AP	S3 SP	Introduction to Industry 4.0 and Industrial Internet of Things	JULY - DEC 2023	NPTEL
7	AIRIN BASAL	S5 EC	The Joy Of Computing Using Python	JULY - DEC 2023	NPTEL
8	FATHIMA SANA C	S5 EC	Digital Circuits	JULY - DEC 2023	NPTEL
9	FATHIMA SAFA V P	S5 EC	The Joy Of Computing Using Python	JULY - DEC 2023	NPTEL
10	NAMITHA P M	S7 EC	Biomedical Nanotechnology	JULY - DEC 2023	NPTEL
11	MUHAMMED ANAS CK	S7 EC	The Joy Of Computing Using Python	JULY - DEC 2023	NPTEL
12	MEGHA T P	S3 SP	Introduction to Industry 4.0 and Industrial Internet of Things	JULY - DEC 2023	NPTEL
13	FATHIMA HINA P	S5 EC	Wildlife Ecology	JULY - DEC 2023	NPTEL
14	SNEHAMOL M P	S7 EC	Digital Circuits	JULY - DEC 2023	NPTEL
15	EBIN JOHNY	S3 SP	Problem Solving Through Programming In C	JULY - DEC 2023	NPTEL
16	GAYATHRI PRAMOD	S5 EC	Electronic Systems For Cancer Diagnosis	JULY - DEC 2023	NPTEL
17	ANAGHA HARIDAS	S7 EC	Introduction To Internet Of Things	JULY - DEC 2023	NPTEL
18	AYISHA A	S7 EC	Introduction To Internet Of Things	JULY - DEC 2023	NPTEL
19	GAYATHRI PRAMOD	S5 EC	Introduction To Internet Of Things	JULY - DEC 2023	NPTEL
20	FATHIMA SAFA M	S8 EC	Introduction To Internet Of Things	JULY - DEC 2023	NPTEL
21	ALAKANANDA K C	S7 AE	Transducers For Instrumentation	JULY - DEC 2023	NPTEL
22	RAMEESBABU	S7 AE	Transducers For Instrumentation	JULY - DEC 2023	NPTEL
23	ATHIRA K P	S7 AE	Transducers For Instrumentation	JULY - DEC 2023	NPTEL

24	FATHIMA A	S7 AE	Transducers For Instrumentation	JULY - DEC 2023	NPTEL
25	SANDRA G SIMON	S7 AE	Introductory Neuroscience & Neuro-Instrumentation	JULY - DEC 2023	NPTEL
26	ANEESHA PS	S7 AE	Transducers For Instrumentation	JULY - DEC 2023	NPTEL
27	Anjana P	S7 AE	Transducers For Instrumentation	JULY - DEC 2023	NPTEL
28	AYSHA JOWHAR	S6 EC	Python for Data Science	JAN - APRIL 2024	NPTEL
29	ZEBA MEHABOOB A	S6 EC	Python for Data Science	JAN - APRIL 2024	NPTEL

2.1.3 Achievements by the faculty members

2.1.3.2 FDP / STTP / TRAINING / WORKSHOP attended by the faculty

Sl. No.	Name of faculty	FDP / STTP	FDP / STTP Attended	Dates of FDP	No. of days
1	SUBHIJA E N	GEC Kozhikode	FDP on Metaverse, AR, VR	11-12-23 to 15-12-23	5
2	Dr. ABDU RAHIMAN V	NITTTR Chandigarh	Artificial Intelligence And Cognitive Learning	15/1/2024 to 19/1/2024	5
3	JITHESH C P	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
4	JITHESH C P	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
5	SARITHA M	GEC Kozhikode	FSDTC EV Technology and Battery Management System	15/01/2024 to 19/01/2024	5
6	SWAPNA G	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
7	SWAPNA G	ATAL FDP in NSS	Milimeter wave communication and key enabling technologies-5G/6G	12/02/2024 TO 17/02/2024	6
8	SWAPNA G	GEC Sreekrishnapuram	Internet of things and Machine learning applications in engineering system	22/01/2024 to 24/01/2024	3
9	HARIKRISHNAN P R	ATAL FDP in NSS	Milimeter wave communication and key enabling technologies-5G/6G	12/02/2024 TO 17/02/2024	6
10	HARIKRISHNAN P R	College of Engineering Trivandrum	Emerging trends in nano technology and its future scope	8/1/2024 to 12/1/2024	5
11	SREERAM R	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5

12	SREERAM R	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
13	ANJU S ANAND	Vidya Academy Of Science And Technology	Practical Aspects of Communication Engineering with Hands-on Training	22.02.2024 to 24.02.2024	3
14	Dr. MUHAMMED FASIL C	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
15	Dr. SARITHA M	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
16	Dr. AGNES JACOB	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
17	BABITHA B NAIR	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
18	SARITHA E	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
19	RANJU K V	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
20	DR.BABURAJ M	GEC Kozhikode	FSDTC - EV Battery Management System	15/01/2024 to 19/01/2024	5
21	Dr. ANOOP C S	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
22	BABITHA B NAIR	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
23	BINOY K P	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
24	Dr. AGNES JACOB	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
25	JITHESH C P	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
26	RANJU K V	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5
27	SHILPI M	GEC Kozhikode	FSTDTC - Metaverse AR and VR	11/12/2023 to 16/12/2023	5

2.1.3.3 Faculty doing Quality Improvement Programme

Sl No	Name of the Faculty	Programme attending
1	Prof. Shanthini K	PhD
2	Prof. Rashid Ummer N T	PhD
3	Prof. Sreeraj S	PhD

Faculty development programs conducted

1. DTE Sponsored FDP on Metaverse AR and VR from 11-12-2023 to 15-12-2023 organized at Government Engineering College Kozhikode

The faculty development program on Metaverse, AR and VR was conducted from 11th December 2023 to 15th December 2023 with an aim to build the concepts of software based design concepts to develop real time experiences using augmented reality and virtual reality.

This FDP was also technically supported by IEEE Malabar subsection (IEEE MSS) and IETE Kozhikode chapter. One of the technical session was sponsored by IEEE MSS.

The entire topics of this FDP was based on the theoretical and laboratory basics of the regular lab course of the undergraduate program Computer Science and Design. The number of participants who attended the FDP was 29, out of which 14 were external participants and remaining were internal participants. Day 1 began with the inaugural session at 9.30 am in the presence of the chief guest Ms Udaya Unnikrishnan AI expert from TATA Elxsi, the Centre Coordinator Dr. Pradeep Kammath, HOD of AEI department Dr. Agnes Jacob who presided the function, PG dean Dr. Shahjahan E S, Dr Sabiq P. V and the course coordinators Dr Bindima T and Dr. Saritha M. The inauguration began with a silent prayer followed by the welcome address by Dr. Bindima T, presidential address by Dr Agnes Jacob followed by the inauguration and the inaugural address. In the inaugural address Ms Udaya from TATA Elxsi emphasized the role of AI in all the industrial sectors and the need to keep ourselves open to the changing technology in this domain. The inaugural address was followed by the felicitation addresses by Dr Sabiq P. V Chair of IEEE Kerala Section Educational Activities, Dr. Pradeep Kammath, and Dr. Shahjahan E S. The inaugural session ended with a vote of thanks by Dr. Saritha M.

Session 1 (11-12-2023 10:45am - 12:45pm)

The first session started at 10:45 am in the placement hall and was led by Udaya K Unnikrishnan on the topic Generative AI, a class of AI techniques aimed at creating or generating new content such as images, text, audio, and video that is original and indistinguishable from that created by humans. The concepts of generative adversarial networks was also covered with emphasis on its application in text generation, art and design, content creation, drug discovery and anomaly detection. Special focus was given to scenario show generative AI is used for 3 D model designing.

Session2(11-12-20231:30-5pm)

Resource Person: Mr Densil Antony (CEOXRHorizon)

The second session was on the topic 'Introduction to Metaverse, AR and VR' and 'Psychological impact of AR/VR experiences in Engineering education ' and was handled by Mr. Densil Antony CEO of XR Horizon Pvt Ltd. The immersive digital experiences offered by metaverse, augmented reality and virtual reality was introduced

to the participants. AI show the digital content is overlaid on to real world environment using augmented reality so as to enhance the user's perception of reality. Also there was a session on how effective it would be if a real time virtual experience of the technical contents of the regular courses is provided to the students, which would definitely serve to high level grasping and understanding of the engineering concepts.

Session3(12-12-20239:30am-12:45pm)

Resource Person: Mr.Anas K A (Senior3Ddesigner)

The powerful open source 3D software suite for creating animations, visual effects, 3Dmodels and video games was introduced in this session. The features of this software for creating 3D models was also covered. Modelling tools for creating 3D models including the techniques of polygonal modelling, sculpting, etc to create intricate models were introduced in this session.

Session4(12-12-20231:45-5pm)

Resource person: Mr.Anas K A (Senior3Ddesigner)

This session introduced how the designer can precisely control the appearance of surfaces by applying textures and materials to the 3D models created. The animation tools in blender that creates key frame animation, rig characters for movement, were also discussed. Also full fledged composting and video editing features of Blender was discussed. Also an introduction of the simulation tools for realistic simulation of natural phenomena were discussed.

Session5(13-12-20239:30am-12:45pm)

Resource person: Mr.Akhil M Mani (3DdesignengineerandLeadUnityDeveloper)

This session introduced the Unity software for building 3D models focussing on game development and real time interactive experiences. The session covered the concepts of importing 3Dmodels, manipulating models and mesh editing.

Session 6(13-12-20231:45pm-5pm)

Resource person: Mr.Akhil M Mani (3Ddesign engineer and Lead Unity Developer)

This session introduced the 3D design concepts and techniques including scene composition, modeling and texturing, lighting and shadowing, and animation and rigging for creating immersive and visually appealing environments for game and animation development.

Session7(14-12-20239:30am-11:30am)

Resource person: Mr.Akhil M Mani (3DdesignengineerandLeadUnityDeveloper)

The fundamental aspects of game development in Unity including creating scenes and scripting in C# were covered in this session. The primary approach of creating game logic, controlling object behavior and implementing interactivity using C# scripting language was also introduced.

Session 8 (Lab session) (14-12-2023 11:30am to 12:45 pm and 1:30 - 2:30pm)

Resource person: Mr.Akhil M Mani (3DdesignengineerandLeadUnityDeveloper)

Hands on sessions on building models using and Unity 3D modelling was were provided in this session. The participants were able to build their own models according to their creativity.

Session9(14-12-20232:45pm-5:00pm)

Resource person: Anas Madhav (Lead Unity Developer)

The best practices to create compelling AR/VR experiences using Unity software was introduced here, to show case the potential of immersive technologies. Also the steps involved for the AR/VR design development including placing virtual objects in real world, interacting with the environment, integrating AR specific interactions like gesture recognition or spatial mapping were also covered.

Session 10 (15-12-2023 9:30am - 12:30pm, 1:30 pm to 2:30 pm)

Resource person: Anas Madhav (Lead Unity Developer)

VR platforms supported by Unity including Oculus rift, HTC vive and Windows mixed reality were introduced along with Unity's XR plugin management, creating immersive experiences by implementing VR locomotion and interaction mechanics, along with the concepts of optimizing the performance for smoother frame rate. The necessary steps for integrating the design of the VR environment for experience zone creation was also discussed in the AN session

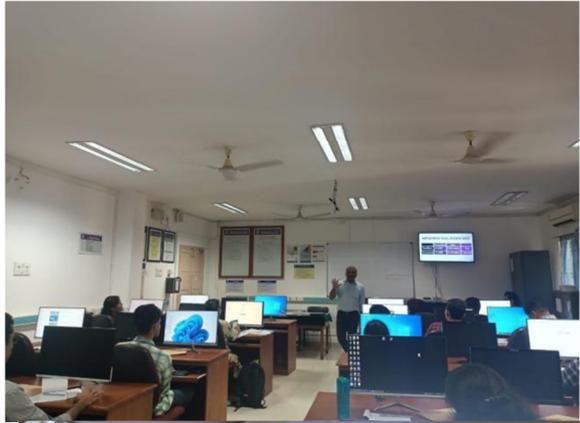
Session 11 (Lab session - 15-12-2023 2:30 -3:30pm)

Resource person: Anas Madhav (Lead Unity Developer)

A VR environment creation with experience zone was provided as laboratory session along with providing audio visual effects. The participants were given a chance to experience the effects of AR/VR models developed during the previous lab sessions, by using the AR/VR headsets.

The sessions winded up at 3:30 pm followed by the valedictory function and certificate distribution. The feedback was also collected from the participants. The participants had provided comments regarding the organizing of the FDP with sufficient hand-on sessionwhichwasreallyuseful.TheFDPcametoanendat4:30pm.

The total expense of the FDP was Rs. 1,45,294 (One lakh thirty thousand two hundred and ninety four only). Out of which Rs. 15000 was received as financial support from IEEE Malabar subsection, for the FDP as part of their educational activities. Hence, a total amount of Rs.1,30,294 (One lakh thirty thousand two hundred and ninety four only) was the effective expenditure for the FDP.



2. DTE Sponsored FDP on EV Technology and Battery Management System from 15-01-2024 to 19-01-2024

The Faculty Development Program (FDP) on " EV Technology and Battery Management System " was planned to give the participants an exposure on the technology behind electric vehicles and Battery Management methods. The use of green energy is becoming increasingly more important in today's world. Therefore, electric vehicles are currently the best choice for the environment in terms of public and personal transportation. There are different types of Battery Management System (BMS) that are used to avoid battery failures. The battery is the only power source in pure electric vehicles. Therefore, the BMS in this type of application should include battery monitoring and protection systems, a system that keeps the battery ready to deliver full power when necessary and a system that can extend the life of the battery. In a vehicle, the BMS is part of a complex and fast-acting power management system. In addition, it must interface with other on-board systems such as the motor controller, the climate controller, the communications bus, the safety system and the vehicle controller. This five days' training was organized by the Department of Applied Electronics & Instrumentation Engineering during 15th January to 19th January 2024. The training programme was funded by the Directorate of Technical Education (DTE), through the Faculty and Staff Development Center (FSDTC) of Government Engineering College Kozhikode. The coordinator of the program was Dr. Shajahan E. S., Professor, Department of Electronics and Communication Engineering, Government Engineering College Kozhikode.

The registration of the FDP was performed as online registration through the Training Management System (TMS) portal of DTE. We have obtained 47 applications from various colleges. Because of the increased number of applications we have increased our capacity to 36 participants from the initially planned 20 participants. However, one among the registered candidates didn't turn up for the programme and we have included another candidates through spot registration. Among the 36 participants, 21 were from other colleges and 7 internal candidates. The official inauguration of the FDP was carried out by Dr. Prajof A., Chief Guest and Resource person, EEE department, NITK, Surathkal, at 9:30 AM on 15th January 2024 at ASAP room Civil block. Dr. Shajahan E.S. welcome the guests and participants. The inaugural function was presided over by Dr. Sajith P. P., Principal in charge, GEC Kozhikode. Dr. Agnes Jacob, HOD and Dr. Shajee Mohan B. S., Professor, AE&IE department have given felicitations and Dr. Jesy P., ECE gave vote of thanks. The first session was handled by Dr. Pajof A, EEE department, NITK, Surathkal on the topic "Battery management System for EV " which was held at ASAP hall. Details of various sessions handled by the resources persons are given below along with the photographs of various sessions.

#	Topic	Name & Address of Faculty	Date and Time	No. of Hours
1	Battery management System for EV	Dr. Prajof A,Assistant Professor Department of EEE, NIT Karnataka, Surathkal	15/01/2024 10.30 Am to 12.30 pm and 1.30pm to 4.30pm	5
2	Control aspects of EV	Dr. Ramesh Kumar P,Associate ProfessorHoD, Department of EEE, GEC Wayanad	16/01/2024 9.30 am to 12.30 pm	3
3	Evolution of inverters- Squarewave to Sinewave	Dr. Rijil Ramchand, ProfessorDepartment of EE, NIT Calicut, Chathamangalam	16/01/2024 1.30pm to 4.30pm	3
4	Super Capacitor storage for EV	Dr. Shreelakshmi M. P.,Assistant ProfessorDepartment of EE, NIT Calicut, Chathamangalam	17/01/2024 9.30 Am to 12.30 pm	3
5	DC DC converters for EV System	Dr. Kumaravel S.,Associate ProfessorDepartment of EE, NIT Calicut, Chathamangalam	17/01/2024 1.30pm to 4.30pm	3
6	Motor Controllars for Evs	Mr. Mohamad Aslam,CEOInQbe Systems Pvt Ltd, Cochin	18/01/2024 9.30 am to 12.30 pm and 1.30pm to 4.30pm	6
7	Verification and Validation in Automotive	Mr. Vadivel Muthupandi,Product SpecialistVector Informatik India Pvt Ltd, Bangaluru	19/01/2024 9.30 am to 12.30 pm and 1.30pm to 3.30pm	5

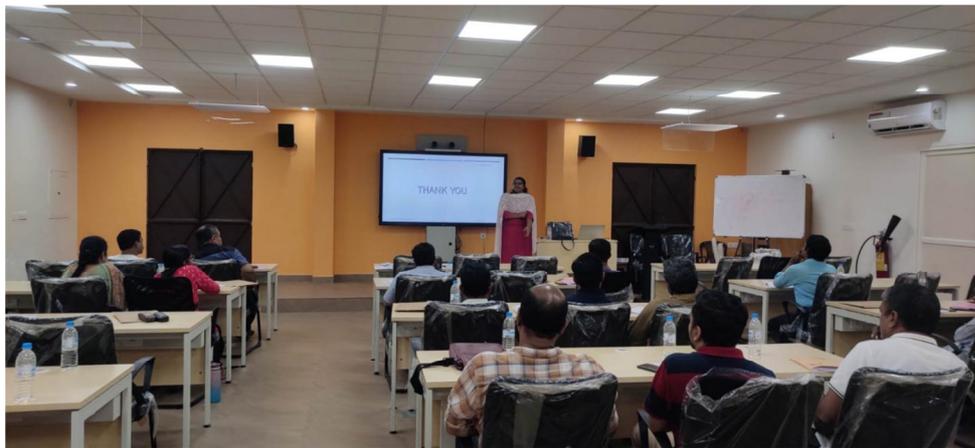
Photographs of various sessions:



1. Dr. Prajof A inaugurating the FDP



2. Felicitation by Dr. Agnes Jacob, HoD ECE



3. Session on Supercapacitors by Dr. Shreelakshmi M.



4. Session on Motor controllers by Mr. Muhammed Aslam



5. Motor controllers demo session



6. Group Photo of participants of the FDP

An informal valedictory function was held at 3:30 PM on 19th January 2024 in the ASAP room. Participants expressed the knowledge they gained during each session and they were really happy that the course helped them to understand the various concepts of integrated circuit design. Certificates were distributed to all the participants.

Resource Persons

1. Dr. Prajof A, Assistant Professor Department of EEE, NIT Karnataka, Surathkal
2. Dr. Ramesh Kumar P, Associate Professor HoD, Department of EEE, GEC Wayanad
3. Dr. Rijil Ramchand, Professor Department of EE, NIT Calicut.
4. Dr. Shreelakshmi M. P., Assistant Professor Department of EE, NIT Calicut
5. Dr. Kumaravel S., Associate Professor Department of EE, NIT Calicut.
6. Mr. Mohamad Aslam, CEO InQbe Systems Pvt Ltd, Cochin
7. Mr. Vadivel Muthupandi, Product Specialist Vector Informatik India Pvt Ltd, Bangaluru

UG Program accreditation - AE & I

September 8 to 10, 2023 marked the visit dates of the NBA expert team for the re-accreditation of the Applied Electronic and Instrumentation (UG) program. Consequently the program has been reaccredited for 3 years upto June 30, 2026. This was the culmination of hectic activities involving each and every faculty of the AE&I department for the preparation of various criteria files, refurbishing of labs and other infrastructure, display of student projects, reinforcement of OBE - all of which included the active participation of students also.

2.2 DEPARTMENT OF CHEMICAL ENGINEERING

Introduction

The Department of Chemical Engineering was established in the year 1999 with B.Tech. programme in Chemical Engineering. Students are admitted to the programme based on the state level engineering entrance examination (KEAM) every year. An M.Tech programme in Computer Aided Process Design was started in the year 2011. Both UG and PG programmes are accredited by NBA.

Faculty and Supporting Staff

Details of Faculty members

Sl. No.	Name	Designation	Qualification
1.	Dr. Gigi Sebastian	Professor	Ph.D
2.	Dr. Ushakumary E R	Professor	Ph.D
3.	Dr. Anjana R	Associate Professor & HOD	Ph.D
4.	Dr. Manju M S	Associate Professor	Ph.D
5.	Dr. Beula C	Associate Professor	Ph.D
6.	Dr. Binu T V	Associate Professor	Ph.D
7.	Prof. Sindhu N.	Assistant Professor	M. tech.
8.	Prof. Suma K	Assistant Professor	M. Tech.
9.	Dr. Suji S K	Assistant Professor	Ph.D
10.	Prof. Dhaneesh K P	Assistant Professor	M. Tech.
11.	Mrs. Susheeba OK	Faculty- Adhoc	M. Tech.
12.	Dr. Dhanya A	Faculty- Adhoc	Ph.D.
13.	Dr. Minju M	Faculty- Adhoc	Ph.D.
14.	Dr. Jenny N	Faculty- Adhoc	Ph.D.
15.	Mr. Jose P P	Faculty- Adhoc	M. Tech.
16.	Mr. Praveen K P	Faculty- Adhoc	M. Tech.

Details of Technical Staff

Sl. No.	Name	Designation	Qualification
1	Mr. Ajith Soman A	Instructor Grade I	M. Tech.
2	Mr. Ali Akbar E T	Instructor Grade II (Chemical)	M. Tech.
3	Mr. Bijoy M	Instructor Grade II (Chemical)	Diploma
4	Mrs. Geetha M	Trade Instructor (Chemical)	B. Tech.
5	Mr. Jineesh V.C.	Trade Instructor (Chemical)	B. Tech.
6	Mr. Rajeeesh P	Trade Instructor (Chemical)	Diploma
7	Mr. Babu K V	Trade Instructor (Electrical)	Diploma
8	Mr. Sunil K N	Tradesman	Diploma
9	Mr. Dheeraj S	Tradesman	Diploma
10	Mr. Gireesh Kumar P	Tradesman	B. Tech.

Academic Performance

A brief account of the various academic activities and their outcome are dealt in this section.

Results of University Examinations

B. Tech Chemical Engineering

Batch	S1			S2			S3			S4			S5			S6			S7			S8			
	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	
2023-27	68	55	81																						
2022-26	57	43	75	57	33	58																			
2021-25	63	59	94	61	48	79	71	39	55	71	46	65	77	55	77										
2020-24	65	55	85	65	49	75	74	40	54	74	48	65	74	45	61	71	41	58	71	61	86				
2019-23	58	52	90	58	57	98	63	53	84	63	28	44	63	50	79	63	31	49	63	47	75	63	49	78	

M. Tech Computer Aided Process Design

Batch	S1			S2			S3			S4		
	T	P	%	T	P	%	T	P	%	T	P	%
2022-24	7	7	100	6	5	83						
2021-23	8	8	100	7	7	100	7	7	100	7	7	100

Academic Distinctions

B. Tech Chemical Engineering

University Rank Holders



Fahmidha Sherin P
(CGPA 9.73)



Sana Hameed T
(CGPA 9.56)

- Ms. **Fahmidha Sherin P** secured **1st rank** and Ms. **Sana Hameed T** secured **4th rank** in the **B. Tech Chemical Engineering for the batch 2019-2023** by the APJ Abdul Kalam Technological University.

Academic Performance in End Semester Examinations

- The following students secured highest SGPA in the **B. Tech Chemical Engineering S1 (2023-2027 Batch)** university examinations conducted by KTU



Nahla Sherin T K
(SGPA 9.5)



Anna Laiju
(SGPA 9.06)



Ananya A
(SGPA 8.85)

- The following students secured highest SGPA in the **B. Tech Chemical Engineering S2 (2022-2026 Batch)** university examinations conducted by KTU



Nima B S
(SGPA 8.55)



Fathima Hanan V
(SGPA 8.52)



Nandana V P
(SGPA 8.40)

- The following students secured highest SGPA in the **B. Tech Chemical Engineering S4** (2021-2025 Batch) university examinations conducted by KTU



Ambili G
(SGPA 9.64)



Muhammed Sahal K
(SGPA 9.55)



Asha Jayasankar
(SGPA 9.23)

- The following students secured highest SGPA in the **B. Tech Chemical Engineering S7** (2020-2024 Batch) university examinations conducted by KTU



Rajla K P
(SGPA 9.6)



Deepaja Shabu
(SGPA 9.4)



Elsa Tissy Martin
(SGPA 9.4)



Gokul Krishna T S
(SGPA 9.4)



Arya S
(SGPA 9.3)

- The following students secured highest SGPA in the **B. Tech Chemical Engineering S8** (2019-2023 Batch) university examinations conducted by KTU



Febin mathew
(SGPA 9.68)



Fahmidha Sherin P
(SGPA 9.65)



Sana Hameed T
(SGPA 9.47)

M. Tech Computer Aided Process Design

- The following students secured highest SGPA in the **M. Tech Computer Aided Process Design S2** (2022-2024 Batch) university examinations conducted by KTU



Athulia P
(SGPA 8.56)



Suhail K
(SGPA 8.31)



Hridya P K
(SGPA 8.17)

- The following students secured highest CGPA in the **M. Tech Computer Aided Process Design 2021-2023 batch** university examinations conducted by KTU



Amrutha P C
(CGPA 9.14)



Pooja P
(CGPA 8.90)



Nanditha P P
(CGPA 8.79)

Student Participation in Technical Events



- **Salvin M Varghese, Arya Krishna V Rof S8 B. Tech Chemical Engineering** presented their project “Micro encapsulation of Nano red pigment synthesized from Raw rust” at KSCSTE Tech fest 2024 at IIT Palakkad in association with NSS Palakkad on 2-3 March 2024.



- **Arya Krishna V Rof S7 B. Tech Chemical Engineering** presented a technical paper at the conference ‘Chem Summit 23’ organized by School of Chemical Engineering in association with IICHe VIT on 27-28 October 2023.



- **Arjun Kof** S8 B. Tech Chemical Engineering presented a technical paper on the topic ‘Chemical Advancements in Recycling of Poly Urethane’ at event ‘CHEM FLUX-11.0’ conducted by SRM College on 21 February 2024



- **Arjun K, Ann Mary Justine** of S7 B. Tech Chemical Engineering presented a technical paper on ‘Comparative study of Alo-Vera and colloidal Oat meal in moisturization’ at event ‘SCHEMCON-2023’ conducted by Kongu Engineering College in association with IChE ON 22-23 September 2023.

Student Publications

- The UG & PG students of the department actively participated and presented their research findings in the International Conference STEP2023 organized by chemical engineering department under the aegis of Yukthi2023. Sabida Sathyan, S8 B. Tech Chemical Engineering (2019-2023 Batch) student was selected for **Best Paper Award**. The selected papers are published in SSRN journal as listed below.

Sl. No.	Title of the Paper, Description
1	Mathew, Febin and Musthafa, Adhil and Hari, Anandu and Thomas, Vinay and N, Sindhu, Oil Palm Biomass as a Potential Heavy Metal Adsorbent:- a Review (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553169 or http://dx.doi.org/10.2139/ssrn.4553169
2	Babu, Alisha and E. R., UshaKumary, Recovery of Protein From Waste Dairy Milk: A Review (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4552473 or http://dx.doi.org/10.2139/ssrn.4552473
3	K U, Uthara and M Eldhose, Elias and K P, Mohammed Haseeb and E. R., UshaKumary and Pullichola, Abdul Habid, Extraction and Characterization of Natural Pigment Curcumin: A Review (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553533 or http://dx.doi.org/10.2139/ssrn.4553533
4	P P, Nanditha and A M, Aparna, Simulation Model for Hydrogen Production via Reforming of Biomass Gasification Tar (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4552477 or http://dx.doi.org/10.2139/ssrn.4552477
5	V R, Parvathy and R H, Nayana and Anto, Joel and Chandran, Goutham and M S, Manju, A Comprehensive Review of Experimental Investigations on Potential Antimicrobial Agents for Biofilm Reduction (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553538 or http://dx.doi.org/10.2139/ssrn.4553538
6	Mukundhan, Nikhila and M, Shyja, Waste to Value Added: Keratin Nanoparticle Synthesis and Applications- a Review (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4552470
7	C B, Abhirami and K T, Amrutha Priya and M S, Ardra and M K, Sandra and C, Beula, Oil Separation Using Modified Kapok Fiber from Different Sources of Waste Water- A Review Paper (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4554817 or http://dx.doi.org/10.2139/ssrn.4554817
8	Babu, Devadas and Sathyan, Sabida and P K, Misna and P, Anurag and N, Sindhu, Characterization of Pineapple Leaf Fibers and Their Suitability for Biocomposite Preparation (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553298 or http://dx.doi.org/10.2139/ssrn.4553298
9	P, Hafna and S, Asif Shah and Rahim, Zainaba and N V, Arthith and Sebastian, Gigi, Simulation of Titanium Dioxide Production Using Unisim Design R480 (April 12,2023). Available at SSRN: https://ssrn.com/abstract=4553127 or http://dx.doi.org/10.2139/ssrn.4553127
10	T, Sana Hameed and B P, Aparna and N, Anjima and Vijayakumar, Vismaya and C, Beula, Study and Development of Modified Wheat Bran For Dye Removal From Wastewater (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553129 or http://dx.doi.org/10.2139/ssrn.4553129
11	P P, Nanditha and S K, Suji, TiO ₂ as a Photocatalysts for Wastewater Treatment - A Review (April 10, 2023). Available at SSRN: https://ssrn.com/abstract=4552468 or http://dx.doi.org/10.2139/ssrn.4552468
12	Kuriakose, Eldho and K A, Dhrishya and V B, Namitha and V, Athira and T V, Binu, Mfc Production and Rainfastness Analysis in Pesticides-A Review (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553313 or http://dx.doi.org/10.2139/ssrn.4553313

Sl. No.	Title of the Paper, Description
13	C Kishor, Aparna and T K, Jinan and Jose, Nithin and S, Neeraj and K, Suma, Lignin Based Adsorbents for Removal Of Pollutants- A Review Paper (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553545 or http://dx.doi.org/10.2139/ssrn.4553545
14	Nizar Abdulla, Anzeem and Munees Muhammed, C K and P V, Malavika and A Susheel, Nandu and M, Shyja, Extraction of Keratin from Different Sources: A Comparative Study (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553302 or http://dx.doi.org/10.2139/ssrn.4553302
15	Musthafa B, Sana and M, Anjima and Nazer, Saja and P, Abhinav and C M, Sajitha, Comparative Study of Corrosion Inhibitors From Natural And Chemical Means (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553307 or http://dx.doi.org/10.2139/ssrn.4553307
16	P S, Anagha and Jennifer Joy, Rhea and Saju, Geo and C, Ajmal and E. R., UshaKumary and Pullichola, Abdul Habid, A Review of Unsaturated Polyester Resin-Based Adhesives (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553527 or http://dx.doi.org/10.2139/ssrn.4553527
17	D, Deepika and Mahamood, Ayman and B, Bijith and M, Sameer Ali and S K, Suji, Zeolite Synthesis from Waste materials and its Recent Applications: - A Review (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553520 or http://dx.doi.org/10.2139/ssrn.4553520
18	Sherin, Fahmidha and M, Kaviya and K P, Abinlal and G, Krishnasree and R, Anjana, Preparation and Characterisation Of Biochar From Banana Stem For Removal of Methylene Blue (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553174 or http://dx.doi.org/10.2139/ssrn.4553174
19	P, Pooja and K P, Dhaneesh, Biochars and Their Application as Transesterification Catalyst: A Review (April 10, 2023). Available at SSRN: https://ssrn.com/abstract=4552110 or http://dx.doi.org/10.2139/ssrn.4552110



Achievements in Extra-Curricular Activities



- **Anjana Santhosh** of S3 B. Tech Chemical Engineering (2022-2026 Batch) was member of **College Women's Handball team** secured **Runner Up in KTU- F Zone** competitions during November 2023.



- **Sreehari R** S8 B. Tech Chemical Engineering (2020-2024 batch) was selected to **APJKTU Football reserve team** for inter university Football Championship.



Akash Murali

(S8 B. Tech)



Ashik Maijo

(S8 B. Tech)



Abhinand V

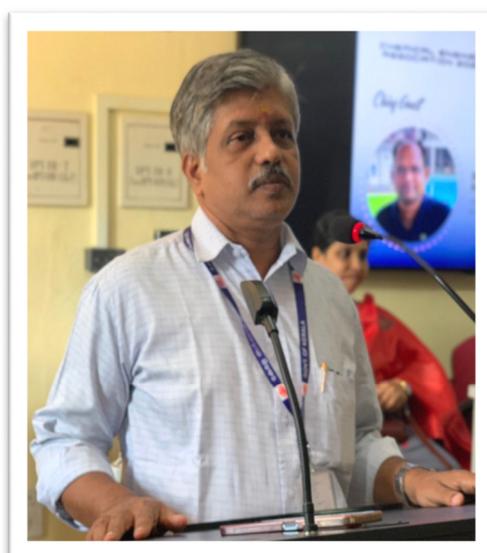
(S8 B. Tech)

- **Akash Murali, Ashik Maijo and Abhinand V** of S8 B. Tech Chemical Engineering (2020-2024 batch) has secured third place in the **APJ KTU Handball F Zone** tournament.

Chemical Engineering Association Activities.

The Association of Chemical Engineering Students (ACES) is the prominent body of the Department of Chemical Engineering. The inaugural ceremony of ACES for the academic year 2023-2024 was held on November 29, 2023 under the College Union ADVIKA. The Chief Guest of the day, Dr. Abdul Habid Pullichola, Technology Consultant and Former R&D Head Saint-Gobain, inaugurated the activities for the year 2023-24. He was also an Alumnus of our Department and have 18 years of experience in serving various companies.

The function was presided by Dr. P C Reghu Raj, Principal, Government Engineering College Kozhikode. Prof. Sindhu N. Faculty in charge of ACES, welcomed the gathering and Dr. Anjana R. Head of the Department felicitated for the upcoming activities of ACES. Mr. Muhammed Faris Ameen K P, College Union Chairman and Mr. Mohammed Anas P O, PG representative was also present in the function. The inaugural ceremony came to a successful end with the Vote of Thanks by Chemical Engineering Department UG representative Mr. Muhammed Sahal K.



- Expert Talk on 29/11/2023. Dr. Abdul Habid Pullichola, Technology Consultant and Former R&D Head Saint-Gobain gave an enlightening talk on the topic

'EXPECTATION OF INDUSTRIES FROM THE UPCOMING CHEMICAL ENGINEERS'. In his address, he stressed on the need of self-confidence and everyone must be proud as a chemical engineer. He said rather than communication skill an engineer must have his/her specific technical skills in order to achieve his ultimate goal. He concluded his session by providing information on the type of professional roles after graduation and introduced various leading chemical engineering companies. His presentation was an eye-opener to every student member.



➤ **FELICITATION OF THE UNIVERSITY RANK HOLDERS BY ACES on 29/11/2023**

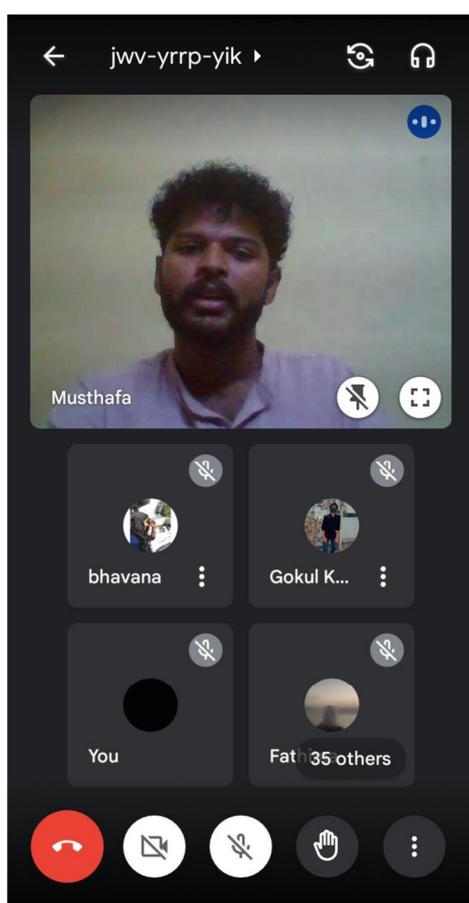
Ms. Fahmida Sherin P secured **1st rank** and **Ms. Sana Hameed T** secured **4th rank** in the B.Tech Chemical Engineering for the batch 2019-2023 by the APJ Abdul Kalam Technological University. The University rank holders in 2023 B.Tech Chemical Engineering were congratulated by ACES. They were presented with mementos by the chief guest and GECK Principal.



➤ **ALUMNI CHAIN: Exploring Chemical Engineering Career Paths**

The alumni session named ALUMNI CHAIN was held on 15th December 2023 8:00pm via google meet, under Chemical Engineering Association (ACES) Government Engineering College, Kozhikode. Mr. Mohammed Anas P O PG representative introduced the Alumni's **Ms. Bhavana Sasi** and **Mr. Musthafa K**. Ms. Bhavana Sasi and Mr. Musthafa K generously shared their experiences and insights related to their careers in a prominent chemical engineering company BPCL. The event aimed to provide current students with a deeper understanding of the industry, apprenticeship, career trajectories, and practical challenges faced in the field.

This interactive segment allowed students to seek personalized advice, gain further insights, and build connections with the alumni. In essence, the alumni session proved to be a rich source of inspiration and information for current students interested in pursuing careers in chemical engineering. The diverse experiences shared by the alumni painted a comprehensive picture of the industry, preparing students for the dynamic and ever-evolving nature of the field. The event successfully bridged the gap between academia and industry, fostering a sense of community and mentorship within the chemical engineering department. The session concluded with the vote of thanks by UG representative Muhammed Sahal K.



Inauguration of Indian Institute of Chemical Engineers (IChE) Regional Centre Kozhikode

The Kozhikode Regional Centre of Indian Institute of Chemical Engineers was formed and the following were elected as the office bearers:

Chairman: Dr. V. Sivasubramanian, Professor (NIT Calicut), Vice Chairman: Dr. Manju M S. Associate Professor (GEC) Kozhikode), Secretary: Dr. Subhasis Mandal, Assistant Professor (NIT Calicut), Joint Secretary: Mr. Aneesh Raj, Lecturer (Kerala Government polytechnic College), Treasurer: Dr. Praveen Kumar G. Assistant Professor (NIT Calicut), Executive Members: Dr. Haribabu K, Associate Professor (NIT Calicut), Dr. Vineesh Ravi, Assistant Professor (NIT Calicut), Dr. Teja Reddy Vakamalla, Assistant Professor (NIT Calicut), Dr. Chandra Shekar Bestha, Assistant Professor (NIT Calicut), Dr. Ranjith P M, Assistant Professor (NIT Calicut), Dr. Ushakumari E R, Professor (GEC Kozhikode), Dr. Anjana R, Associate Professor (GEC Kozhikode), Dr. Beula C, Associate Professor (GEC Kozhikode), Mr. Akhilesh Prabhakar, Lecturer (Govt. Polytechnic College Kalamassery).

The Inauguration Ceremony of the Indian Institute of Chemical Engineers (IChE) Kozhikode Regional Centre was held on 16th February 2024 at 9.30 AM in Bhaskara Hall, National Institute of Technology Calicut. Shri. Mathew P. Thomas (General Manager, BPCL Kochi Refinery) and Dr. Avijit Ghosh (Director, IChE Training Institute) jointly inaugurated RC Kozhikode. Subhasis Mandal, Honorary Secretary of RC Kozhikode welcomed the gathering. Prof. V. Sivasubramanian, Chairman of RC Kozhikode delivered the Presidential Address, followed by Inaugural Address by Shri. Mathew P. Thomas and Dr. Avijit Ghosh. Dr. P.C. Reghu Raj, Principal, Government Engineering College Kozhikode and Prof. Abdul Salam P.K., Principal, Kerala Government Polytechnic College Kozhikode also addressed the gathering. Dr. Praveen Kumar, Treasurer of RC Kozhikode delivered the Vote of thanks. Faculty, staff and students of the Department of Chemical Engineering went to NIT Calicut and attended the function.



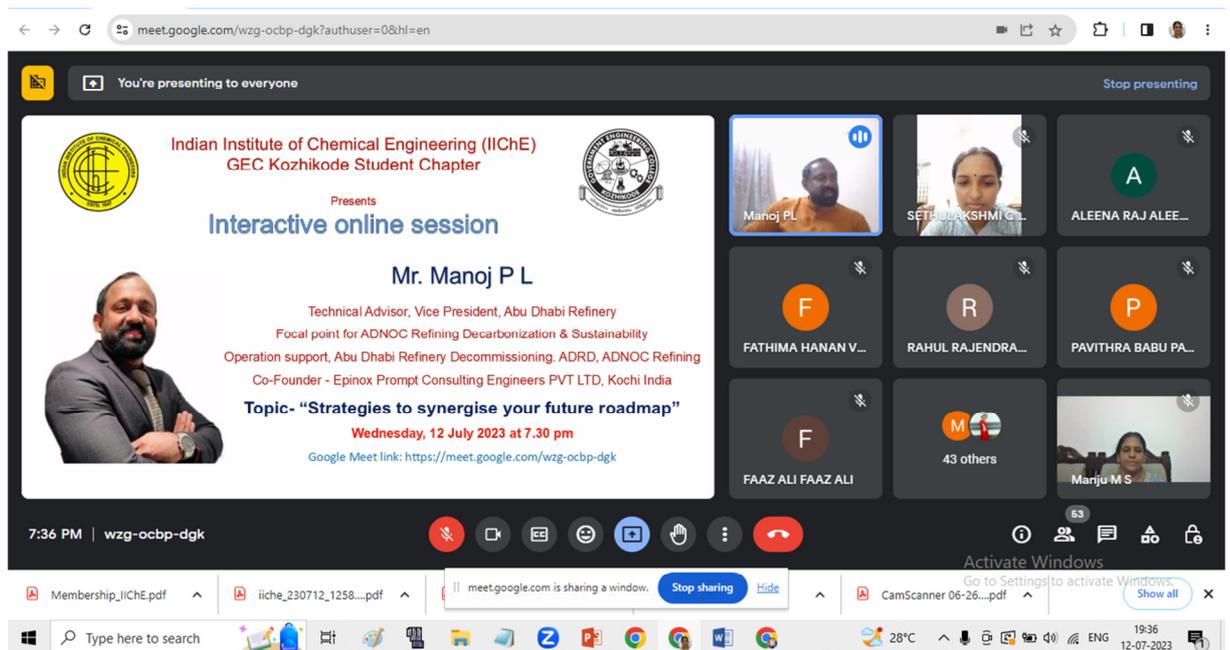
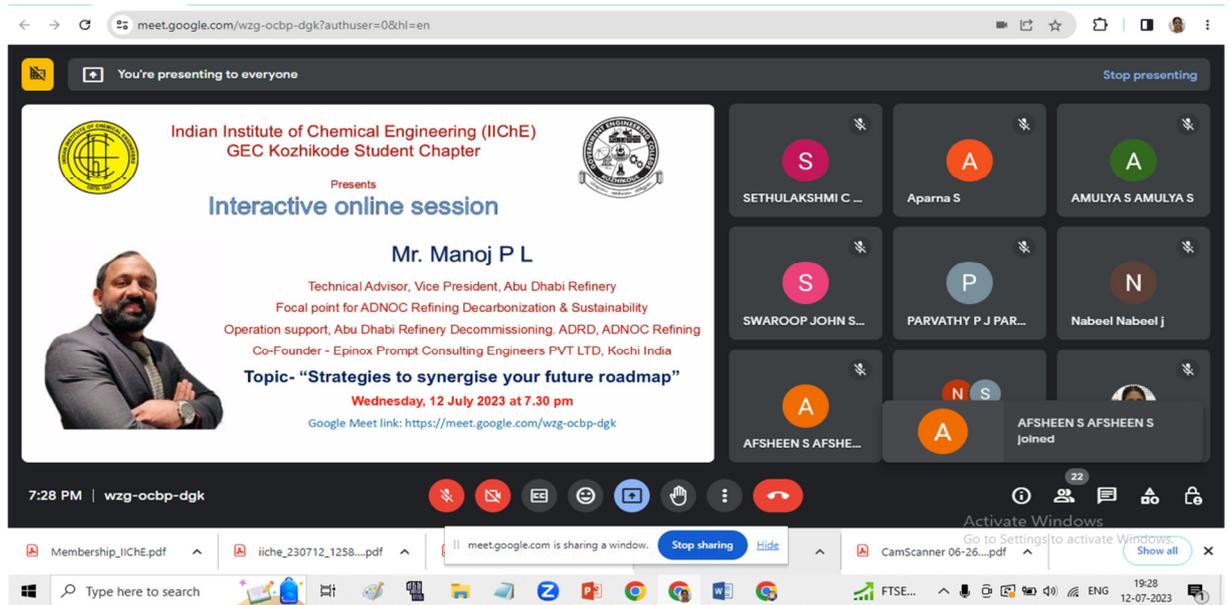
Activities of IIChE GEC Kozhikode Student Chapter

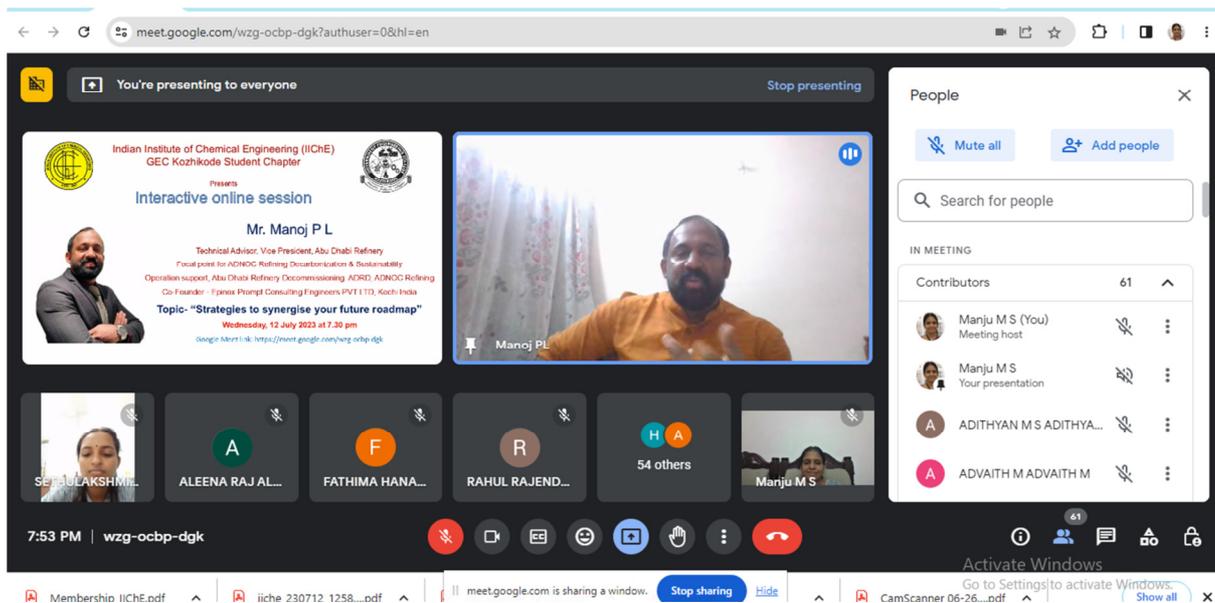
The activities of the IIChE GEC Kozhikode Student Chapter for the year 2023-24 is summarized below.

Interactive Online Session

IIChE GEC Student chapter organized an interactive online session on Wednesday 12th July, 2023 at 7.30 pm (Google Meet link: <https://meet.google.com/wzg-ocbp-dgk>). The speaker was Mr. Manoj P. L., Technical Advisor, Vice President, Abu Dhabi Refinery Focal Point for ADNOC Refining Decarbonization & Sustainability Operation support, Abu Dhabi Refinery Decommissioning, ADRD, ADNOC Refining and Co-Founder, Epinox Prompt Consulting Engineers PVT LTD, Kochi India. Mr.

Manoj delivered a talk on the topic “Strategies to synergize your future roadmap”. During and after that talk the speaker interacted with the students and discussed various skills to be attained for molding themselves into future-ready Chemical Engineers. The talk was highly inspiring and motivating.





Seminar on Automation in Chemical Plant

The seminar on the topic ‘Automation in Chemical Plant’ was held on 27 February 2024 10:30 AM at Chemical Engineering seminar hall, under IChE Government Engineering College Kozhikode Student Chapter. The session was handled by **Mrs. Nishida, Regional Technical Head, IPCS Global Kozhikode** who generously shared her knowledge and insights related to the topic. The event aimed to provide current students with a deeper understanding of the industry, various automation and process control technologies in a chemical plant.

The session commenced with a welcome by Dr. Manju M S, President, IChE GEC Kozhikode Student Chapter acknowledging the relevance of automation in a chemical plant and the role of IChE among chemical engineering students. The chief guest was introduced, showcasing her designation and diverse roles within the automation field.



The heart of the session comprised detailed and in-depth discussions on automation and process control in a chemical plant. The speaker introduced various softwares used in chemical plants for controlling the reactors and processes. She also included the importance of these softwares, its simplicity of use, and how these automation techniques replaced the manual controlling.



Following the seminar, attendees had the opportunity to interact with the speaker through a vibrant question-and-answer session. This interactive segment allowed students to seek their queries and clear their doubts and the speaker answered all the questions raised by the students. In essence, the seminar proved to be a rich source of inspiration and information for current students interested in pursuing careers in chemical engineering. The diverse knowledge shared by the speaker painted a comprehensive picture of the industry, preparing students for the dynamic and ever-evolving nature of the field. The speaker made the students aware of what actually happening in a chemical plant and how the plant workings are controlled with the use of advanced technologies.

The session concluded with the vote of thanks by UG representative Mr. Muhammed Sahal K, Department of Chemical Engineering.



Awards Received by Students

ISTE Kerala section awards 2022-23

Arya Krishnan V R. of S8 B. Tech chemical Engineering received **Best Student Award** at annual state convention held on 16-17 march 2024.



Placements



Rahul Krishnan U A
M. Tech in Computer Aided
Process Design
(Placed at Yokogawa)



Salvin M Varghese
B. Tech in Chemical
Engineering
(Placed at Schneider
Electric)



Rahna M T
B. Tech in Chemical
Engineering
(Placed at Schneider
Electric)

Courses attended by students

Sl. No.	Name of the Student	Semester	Name of the course	Duration	Organized by
1	Asha Jayasankar	S6	Chemical Engineering Thermodynamics	12 weeks	IIT Tirupati
2	Sreyas Santhosh	S6	Biological Process Design for Wastewater Treatment	8 Weeks	IIT Roorkee
3	Shamil Aranghottil	S6	Biological Process Design for Wastewater Treatment	8 Weeks	IIT Roorkee
4	Shasna PT	S6	Biological Process Design for Wastewater Treatment	8 Weeks	IIT Roorkee
5	Akshay Viswanath T	S6	Waste to energy conversion Biological Process Design for Wastewater Treatment	8 Weeks	IIT Roorkee
6	Chaithanya Prajith	S6	Basic Environmental Engineering and Pollution Abatement	12 Weeks	IIT Roorkee
7	Akshara Murali	S6	Basic Environmental Engineering and Pollution Abatement	12 Weeks	IIT Roorkee
8	Hana Varis P	S6	Biological Process Design for Wastewater Treatment	8 Weeks	IIT Roorkee
9	Hridhya P K	M.Tech S3	Aspen Plus Simulation Software - A basic course for beginners	12 Weeks	IIT Guwahati
10	Hridhya P K	M.Tech S3	Polymer Process Engineering	12 Weeks	IIT Roorkee
11	Athulia P	M.Tech S3	Aspen Plus Simulation Software - A basic course for beginners	12 Weeks	IIT Guwahati
12	Safna P	M.Tech S3	Aspen Plus Simulation Software - A basic course for beginners	12 Weeks	IIT Guwahati
13	Mohammed Anas P O	M.Tech S3	Aspen Plus Simulation Software - A basic course for beginners	12 Weeks	IIT Guwahati
14	Rahul Krishnan U A	M.Tech S3	Aspen Plus Simulation Software - A basic	12 Weeks	IIT Guwahati

			course for beginners		
15	Suhail K	M.Tech S3	Aspen Plus Simulation Software - A basic course for beginners	12 Weeks	IIT Guwahati
16	Ashna Robert	M.Tech S2	Aspen Plus Simulation Software - A basic course for beginners	12 weeks	IIT Guwahati
17	Parveen Banu K	M.Tech S2	Aspen Plus Simulation Software - A basic course for beginners	12 weeks	IIT Guwahati
18	Varsha Das	M.Tech S2	Aspen Plus Simulation Software - A basic course for beginners	12 weeks	IIT Guwahati
19	Fathima Hanan V	S3	Biological process design for wastewater treatment	8 weeks	IIT Roorkee
20	Arya S	S8	Energy Conversion Technologies (Biomass and Coal)	8 weeks	NPTEL (IIT Guwahati)
21	Anand V B	S8	Aspen plus simulation software - a basic course for beginners	12 weeks	IIT Guwahati
22	Aleena R	S8	Energy conversion Technologies - Biomass and Coal	8 weeks	NPTEL (IIT Guwahati)
23	Diya P	S8	Energy Conversion Technologies (Biomass and Coal)	8 weeks	NPTEL(IIT Guwahati)
24	M K Mihara	S8	Waste to Energy Conservation	8 weeks	NPTEL (IIT Roorkee)
25	M K Mihara	S8	Biological process design for wastewater treatment	8 weeks	NPTEL (IIT Roorkee)
26	Adisha P	S8	Waste to Energy Conservation	8 weeks	NPTEL (IIT Roorkee)
27	Shahna K G	S8	Development and applications of special concrete	8 weeks	NPTEL (IIT Kanpur)
28	Aryakrishna V R	S8	Aspen plus simulation software - a basic course for beginners	12 Weeks	NPTEL (IIT Guwahati)

29	Aryakrishna V R	S8	Waste to Energy Conservation	8 Weeks	NPTEL (IIT Roorkee)
30	Gopika N	S8	Energy conversion Technologies Biomass and Coal	8 Weeks	NPTEL (IIT Guwahati)
31	Nasrin P	S8	Energy conversion Technologies Biomass and Coal	8 Weeks	NPTEL (IIT Guwahati)
32	Rithika Samson	S8	Unit operations of particulate matter	4 Weeks	NPTEL (IIT Roorkee)
33	Henna T	S3	Renewable Energy Engineering: Solar, Wind and Biomass Energy System	12 Weeks	IIT Guwahati

Achievements by the faculty members

10.1. Faculty Publications

Sl. No.	Name of the Faculty	Journal/ Conference/ Book Chapter	Title of the Paper, Description
1	Dr. Anjana R.	Journal	Ranjana Ramath, Akshay Madappilly Sukumaran, Anjana Ramachandran c, Sajeena Beevi Basheer, Methyl orange dye adsorption and degradation at low temperature using iron oxide-incorporated biochar derived from industrial by-products Bioresource Technology Reports 22 (2023) 101470
2	Dr. Anjana R.	Journal	Ranjana R, Dr. Anjana R and, Dr. Beula C. A Review on Biochar as Catalyst/Catalyst Support for oxidation/Reduction/Redox Reactions Eur. Chem. Bull. 2023,12(4), 3255-3279
3	Dr. Anjana R.	Journal	Ansab N.P, Ranjana R, Anjana R. Molecular Modelling & Characterization of Metal Incorporated Biochar from Industrial Wastes Advanced Materials Research ISSN: 1662-8985, Vol. 1178, pp 171-184
4	Dr. Manju M S	Journal	Remya PK, Manju M.S., Abith Sunil, Athulya KS, Jerome Joseph, Jyothsna TU, Synthesis and characterization of nanocellulose from watermelon rinds and water hyacinth, Polymers from Renewable Resources, 2023-05-09

Sl. No.	Name of the Faculty	Journal/ Conference/ Book Chapter	Title of the Paper, Description
5	Dr. Manju M S	Book Chapter	Kumar, S., Agarwal, A.K., Khandelwal, B., Singh, P. (eds) Ammonia and Hydrogen for Green Energy Transition. Energy, Environment, and Sustainability. Springer, Singapore
6	Dr. Manju M S	Journal	Kandi, R.P., Sudharmini, M.M. (Manju M.S.), Suryan, A, Nižetić, S., State of the art and future prospects for TEG-PCM Systems: A review, Energy for Sustainable Development, 2023, 74, pp. 328–348
7	Dr. Manju M S	Journal	Sivakala, S., Manju, M.S., Sudha, J.D, Surfactant Assisted One-Pot Method for Preparation of Polyethylene-Clay Nanocomposites (PECN) and Study of their Viscoelastic Behaviour, Asian Journal of Chemistry, 2023, 35(2), pp. 389–396
8	Dr. Beula C	Journal	Stephy Jose, Dr. Sudev Das, Dr. Beula C, Teja Reddy Vakamalla, Dipak Sen, Amperometric Detection of Glucose Using a Bimetallic Polymeric Film on a Pencil Graphite Electrode, Chemical Engineering & Technology, 1611-1618 https://doi.org/10.1002/ceat.202200549
9	Dr. Beula C	Journal	Ranjana R, Dr. Anjana R and, Dr. Beula C. A Review on Biochar as Catalyst/Catalyst Support for oxidation/Reduction/Redox Reactions Eur. Chem. Bull. 2023,12(4), 3255-3279
10	Dr. Beula C	Journal	Chandran, Gokul and Porfyrakis, Kyriakos and C, Beula Purification and Characterization of Fullerene Molecules (April 10, 2023). Available at SSRN: https://ssrn.com/abstract=4551721 or http://dx.doi.org/10.2139/ssrn.4551721
11	Dr. Beula C	Journal	Muraleedharan, Srilekshmi and C, Beula Preparation and characterization of bioadsorbent from saw dust for the removal of Cd ²⁺ ions from water (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4554820 or http://dx.doi.org/10.2139/ssrn.4554820
12	Dr. Gigi Sebastian	Journal	Jaison, Tija and Sebastian, Gigi, Steam Gasification of Municipal Solid Waste for Hydrogen Production (April 10, 2023). Available at SSRN: https://ssrn.com/abstract=4552465 or http://dx.doi.org/10.2139/ssrn.4552465

Sl. No.	Name of the Faculty	Journal/ Conference/ Book Chapter	Title of the Paper, Description
			4552465
13	Dr. Minju N	Journal	N, Minju and Ubaid, Siyad and S, Savithri, Experimental and Modeling Studies of Carbon Dioxide Adsorption on Silica Aerogel Packed Bed System (April 12, 2023). Available at SSRN: https://ssrn.com/abstract=4553131 or http://dx.doi.org/10.2139/ssrn.4553131
14	Dr. Binu T V	Journal	K, Amrutha and T V, Binu, Carbon Dioxide Capture Using Ionic Liquid: A Simulation Study (April 10, 2023). Available at SSRN: https://ssrn.com/abstract=4552467 or http://dx.doi.org/10.2139/ssrn.4552467

Short term courses Attended by the Faculties.

Sl No	Name of the Faculty	Name of the Program	Date & Duration	Organizing Institute
1	Dr. Manju M.S.	One-week online short-term course on “Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024)”	January 15-19, 2024, (5 days)	National Institute of Technology, Hamirpur, Himachal Pradesh India.
2	Dr. Manju M.S.	One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research	06/03/2024 to 13/03/2024, (8 days)	Internal Quality Assurance Cell (IQAC) of Government College Kottayam, in association with The Kerala State Higher Education Council (KSHEC)
3	Dr. Binu T V	One-week online short-term course on “Principles of Analytical Instruments for Chemical and Environmental Engineers	January 15-19, 2024, (5 days)	National Institute of Technology, Hamirpur, Himachal Pradesh India.

Sl No	Name of the Faculty	Name of the Program	Date & Duration	Organizing Institute
		(PAICEE-2024)”		
7	Dr. Suji S K	One-week online short-term course on “Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024)”	January 15-19, 2024, (5 days)	National Institute of Technology, Hamirpur, Himachal Pradesh India.

Faculty doing Quality Improvement Programme

Sl. No.	Name of the Faculty	Programme attending
1	Prof. Adil Muhammed	PhD at IIT Madras
2	Prof. Aparna A M	PhD at IIT Madras

Faculty acquired PhD in this year

- **Jenny N.** received Doctoral degree from National Institute of Technology Calicut in the area “Thin-film nanocomposite membranes.”

Short Term Courses/Workshop/Training attended by Technical Staff

Sl. No.	Name of the Staff	Name of the Program	Date & Duration	Organizing Institute
1	Ali Akbar E T	Rubber Plastic: Processing to Product	30/11/2023-7/12/2023 (8 days)	NIT Calicut
2	Ali Akbar E T	Low-Cost Industrial Automation	18/12/23-23/12/23 (6 days)	NIT Calicut
3	Jineesh V C	Low-Cost Industrial Automation	18/12/23-23/12/23 (6 days)	NIT Calicut

First-Year Induction Programme 2023-24

The induction program for first-year B. Tech Chemical Engineering Students of Government Engineering College Kozhikode was conducted from 11 to 15 September 2023. The newly admitted students were inducted into the B. Tech program by organising various sessions ranging from general awareness to branch-specific expert lectures. The induction program started on Monday, 11 September 2023, with the Address of the Principal and HODs. Principal Dr. Reghuraj P C. explained the history of the college and the academic programmes and facilities available in the college. The students attended the session along with their parents. HODs of all departments addressed the students and presented glimpses of department activities. The joint sessions were arranged at the venue manufacturing technology laboratory, and the branch-specific sessions were conducted at the Chemical Engineering seminar hall.



Address by Principal and Head of Departments

After the Principal's address an online session on "Roadmap for a Graduate Student" by Mr. Anup Nair, MD, Martin Engineering Corporation was conducted. The session was arranged by affiliated university, A P J Abdul Kalam Technological University

(KTU). In addition to this introduction talk following online sessions were organised by university for motivating and guiding students.

- Mental Health Dr. Varghese Punnoose, Professor and Head of Department of Psychiatry, Govt. Medical College, Kottayam (11.00 am to 12.30 pm on 12/9/2023).
- Anti-narcotics, Inauguration: Sri M B Rajesh, Hon'ble Minister for Local Self Governments, Rural Development and Excise, Key Note: Dr. Jayaprakashan K P, Associate Professor of Psychiatry, Govt. Medical College, Thiruvananthapuram (11.00 am to 12.30 pm on 13/9/2023).
- Industrial scenario in Kerala, Inauguration, -Sri P Rajeev, Hon'ble Minister, for Law, Industries and Coir, Key Note: Sri T K Jose IAS, Former Additional Chief Secretary, Govt. of Kerala (11.00 am to 12.30 pm on 14/9/2023).
- Road Safety: Sri S Sreejith IPS, ADGP and Road Safety Commissioner (2.00 pm to 3.30 pm on 14/9/2023).
- Roadmap for a Graduate Student -Session2: Dr. K P Sudheer, Ex Officio Principal Secretary S&T Department & Executive Vice President KSCSTE (11.00 am to 12.30 pm on 15/9/2023).
- Valedictory Ceremony- Inauguration by Dr. R Bindu, Hon'ble Minister for Higher Education and Social Justice (2.00 pm to 3.30 pm on 15/9/2023).

After the lunch break, the students gathered at the department. The students were divided to four batches of 15 students. Two lab staffs were allotted for each batch to accompany and guide them for the entire session. All batches visited various common facilities in the college such as Centre Computing Facility (CCF), College library, workshops, physics and chemistry laboratories. They also visited all the laboratories in the Chemical Engg department and department library.



Laboratory visit by students



Visit of students at College Library



Interaction of students in the mechanical workshop

The second day of the induction program, Tuesday, 12th September 2023, started with the address of institute UG Dean, Dr. Shaji K. He presented an overview of the B.Tech Curriculum and explained to the students the rules and regulations of the B.Tech program. In the second session, the institute Placement Officer, Dr. Anoop C S, introduced the activities of the Placement Cell to the newly joined students. He presented the placement statistics of recent years. He also highlighted the need for focusing on students' overall development right from the program's first year to ensure good performance in placement interviews and thus secure good placements. The institute Antiragging Committee Chairman, Dr. Saritha M., explained the prevailing laws for preventing any form of ragging on campuses and instructed the students to submit the antiragging affidavit to the AICTE specified antiragging portal. She also explained the procedure for submitting the affidavit.



Interaction of students with UG Dean and Placement officer

In the afternoon, the Head of Department of Chemical Engineering, Dr. Anjana R., addressed the students and introduced the staff advisors and all other faculty and staff members to the students. HOD presented the activities of the department and the details, such as achievements of senior batches and the facilities available in the department. Staff Advisors Dr. Beula C and Dr. Suji S. K. explained the structure of APJ Abdul Kalam Technological University's curriculum.



Address by Head of the Department

In the afternoon, second session is handled by Dr. Manu V. Thottackad, Assistant Professor in Mechanical Engineering, GEC Kozhikode, on the topic "Enriching Students Through Nature". He interacted with the students and discussed the importance of living in harmony with our environment.

In the third day first session was on "ANTI NARCOTICS" by Sri. E. Jayarajan, Kerala Police. He explained the various problems in society associated with drug abuse among youngsters. He highlighted the issues and legal implications of indulging in drug abuse and narcotic-related crimes.



Session on "ANTI NARCOTICS", Sri. E. Jayarajan, Kerala Police

In the post lunch session, Sri. Ranjith, Cyber Crime Police Station, delivered a talk on "CYBER CRIMES". He pointed out the various types of cybercrimes and their legal implications. He explained the importance of students taking necessary precautions so that they neither commit nor be victimised in any cybercrime.



Session on "CYBER CRIMES", Sri. Ranjith, Cyber Crime Police Station

The next session was by Dr. Ushakumary E. R., Professor in Chemical Engineering, GEC Kozhikode. She gave an insight into the Chemical Engineering through her talk on "Overview of Chemical Engineering". She explained the significance of various courses in the B. Tech Chemical Engineering curriculum in grooming a competent graduate engineer. She also delivered a lecture on "Understanding Human Values".



*Session on "Overview of Chemical Engineering", Dr. Ushakumary E. R,
Professor in Chemical Engineering, GEC Kozhikode*

A career in any engineering or scientific field will require both basic and advanced mathematics. Therefore, an additional session was planned and conducted on 12/9/2023 at 4.30pm. The session was handled by Dr. Deepesh K P, Asst Professor, NIT Calicut on topic "Importance of Mathematic in Engineering". He explained the application of mathematics in various fields of Engineering such as Modeling and Analysis, Optimization studies, design and innovation and data analysis.



*"Importance of Mathematic in Engineering", Dr. Deepesh K P,
Asst Professor, NIT Calicut*

The sessions on Thursday (14/9/2023) and Friday (15/9/2023) were conducted in online mode due to Nipah pandemic situation in the district.

2.3 Department of Civil Engineering

2.3.1 Faculty and Supporting Staff

2.3.1.1 Details of Faculty members

Sl. No.	Name	Designation	Qualification
1	Dr. Anjana Santhakumar	Professor	PhD
2	Dr. Kouzer K.M	Professor	PhD
3	Dr. Ragesh P P	Professor and Head of Department	PhD
4	Dr. Rahmathulla Noufal E.	Associate Professor	PhD
5	Abdul Raof A	Assistant Professor	M. Tech
6	Dr. Ansu V.	Associate Professor	PhD
7	Dileep Kumar P.G.	Associate Professor	M. Tech
8	Raji Karuna	Assistant Professor	M. Tech
9	Christena Neethu Priya C Alex	Assistant Professor	M. Tech
10	Aiswarya Manoj	Assistant Professor (Adhoc)	M. Tech
11	Chandana M	Assistant Professor (Adhoc)	M. Tech
12	Aiswarya Ragi K.	Assistant Professor (Adhoc)	M. Tech
13	Supritha O.	Assistant Professor (Adhoc)	M. Tech
14	Neha joy	Assistant Professor (Adhoc)	M. Tech
15	Anjaly K.	Assistant Professor (Adhoc)	M. Tech
16	Lalna S. S.	Assistant Professor (Adhoc)	M. Tech
17	Amrutha P.	Assistant Professor (Adhoc)	M. Tech

2.3.1.2 Details of Technical Staff

Sl. No.	Name	Designation	Qualification
1	Satheesh K	Trade Instructor	ITI
2	Sayuja Kumari T.	Trade Instructor Grade II	B Tech
3	Gireesh Kumar O.	Trade Instructor Grade II	ITI
4	Shajeer Rahman K	Workshop Instructor	Diploma
5	Manu Aravind	Tradesman	ITI
7	Mohammed Shafeek K. M.	Trade Instructor Civil (Ad-hoc)	B.Tech
8	Muhammed Rashid N	Tradesman Survey (Ad-hoc)	Diploma
9	Aswathy C.	Tradesman Civil (Ad-hoc)	M.Tech

2.3.2 Academic Performance

A brief account of the various academic activities and their outcome are dealt in this section.

2.3.2.1 Results of University Examinations

B. Tech Civil Engineering

Batch	S1			S2			S3			S4			S5			S6			S7			S8			
	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	
2023-27	67	48	71.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2022-26	69	47	68.1	69	49	71.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2021-25	59	57	96.6	55	47	85.5	72	53	73.6	72	68	88.9	72	57	79.2	-	-	-	-	-	-	-	-	-	-
2020-24	65	58	89.2	65	51	78.5	72	60	83.3	72	54	75.0	73	66	90.4	73	57	78.1	73	68	93.2	-	-	-	-
2019-23	59	54	91.5	59	55	93.2	66	50	75.8	65	47	72.3	64	55	85.9	64	55	87.5	64	60	93.8	64	62	98.4	-

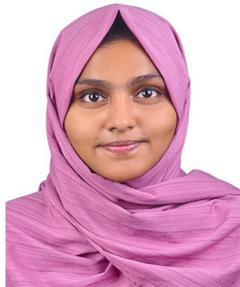
M. Tech Structural Engineering

Batch	S1			S2			S3			S4		
	T	P	%	T	P	%	T	P	%	T	P	%
2023-25	18	-	-	-	-	-	-	-	-	-	-	-
2022-24	18	18	100	18	16	88.9	-	-	-	-	-	-

2.3.2.2 Academic Distinctions

Academic Achievements

- Following students of 2020-2024 Batch B-Tech secured highest CGPA in the university examinations upto 7th semester conducted by KTU

		
KKE20CE016 AYISHA FIDHA P. CGPA- 9.35	KKE20CE024 FATHIMA NAAZNEEN N. CGPA - 9.23	KKE20CE004 AFNA FATHIMA CGPA - 9.22

➤ Following students of 2020-24 Batch Civil (S8 students) qualified **GATE-2024**

- KKE20CE003 – ABHAY A
- KKE20CE029 – HASNA MUMTHAS A
- KKE20CE030 – HIBA FATHIMA
- KKE20CE039 – LENA RAJ
- KKE20CE035 – JOSHIN V J
- KKE20CE049 – PREETHI K
- PKD20CE033 – FIDA P. P.

GOVERNMENT ENGINEERING COLLEGE KOZHIKODE

adusika COLLEGE UNION 23-24

CIVIL ENGINEERING ASSOCIATION 2023-24

S8 CE

JOSHIN V J
Score: 319

ABHAY A
Score: 502

FIDA P P
Score: 319

HIBA FATHIMA
Score 333

HASNA MUMTHAS A
Score: 348

GATE QUALIFIED
Congratulations

LENA RAJ
Score: 328

PREETHI K
Score: 319

➤ Following students of 2021-25 Batch Civil (S6 students) qualified GATE-2024

- KKE21CE035 – IWIN FRANCIS
- KKE21CE034 – HRITHIK SUBIN K. V.
- KKE21CE001 – AADIL M. C. K.
- KKE21CE041 – MINHAJ
- KKE21CE050 – NUZUHA P. T.



CIVIL ENGINEERING ASSOCIATION 2023-24

S6 CE



P T NUZUHA
score: 319



IWIN FRANCIS
Score: 425



MINHAJ
score: 331



AADIL M C K
Score: 359



HRITHIK SUBIN K V
score: 374

GATE QUALIFIED

Congratulations

Student Publications

SI No	Name of the Students	Title of the Paper, Description
1	Hari Mohan, Jesbin EC, Lekshmi M Nair	“Studies on Ferrock Concrete”, 1st International Conference ‘Recent Advances In Infrastructure Development’ (RAID 2024),Dept of Civil Engineering, NIT Calicut
2	Anupriya T M , Sreelakshmi M K	“Comprehensive Review on the Properties of Single-Component Geopolymer”, 1st International Conference ‘Recent Advances In Infrastructure Development’ (RAID 2024),Dept. of Civil Engineering, NIT Calicut

2.3.2.3 Achievements in Extra-Curricular Activities

- Ms. Arunima P., 2022-26 Batch S4 B.Tech Civil Engineering Student has secured Second Place in 100 m Race Women in APJAKTU 6th Intercollegiate (Inter zone) Athletic meet held at Thiruvananthapuram on 01/03/24
- Ms. Arunima P., 2022-26 Batch S4 B.Tech Civil Engineering Student has secured First Place in long jump Women in APJAKTU 6th Intercollegiate (Inter zone) Athletic meet held at Thiruvananthapuram on 01/03/24



ARUNIMA P, S4 CE (2022-26 Batch)

- Ms. Aghana C., 2021-25 Batch S6 B.Tech Civil Engineering student and her team have secured second prize in CONSTRUCTATHON at Athena, the 22nd Annual State Student Convention of ISTE conducted at TKM College, Kollam.



- Fathimath Shahana, 2022-26 batch S4 B.Tech Civil Engineering student secured second prize in Womens Handball tournament in APJ KTU (F-Zone).Held at LBS Kasaragod on 16/11/23



- Anamika K 2022-26 Batch S4 B.Tech Civil Engineering student has secured Second place in KTU F-ZONE WOMEN'S BADMINTON held at Vimal Jyothi Engineering College Chemperi Kannur on 30thOctober 2023



2.3.2.4 Online Courses attended by students

Sl No	Name of the Student	Semester	Name of the course	Duration	Organized by
1.	SANDEEP C R	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
2.	ASHIL SAFIN NK	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
3.	BHAGATH KRISHNA V	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
4.	HIBA FATHIMA	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
5.	DEVAPRIYA S	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
6.	ASWANI T	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
7.	MIDHUNA V P	S8 B.Tech	Wastewater Treatment and Recycling	Jul-Oct 2023	NPTEL
8.	SHANIYA K	S8 B.Tech	Ground Improvement	Jul-Oct 2023	NPTEL
9.	SHAHLA OP	S8 B.Tech	Ground Improvement	Jul-Oct 2023	NPTEL
10.	NIRANJANA A	S6 B.Tech	Engineering Geology	Jul-Oct 2023	NPTEL
11.	ARYA S NAIR	S6 B.Tech	Engineering Geology	Jul-Oct 2023	NPTEL
12.	JASNA FARSANA P	S6 B.Tech	Engineering Geology	Jul-Oct 2023	NPTEL
13.	LEKSHMI M NAIR	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
14.	MYDHILLY S KUMAR	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
15.	RISHAD M	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
16.	SREELAKSHMI K S	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
17.	SREELAKSHMI M K	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
18.	AISWARYA K D	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
19.	ANJITH BENZ	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
20.	ANUPRIYA T M	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
21.	HUSAIMATH CM	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
22.	JUNA VENUGOPAL	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
23.	RESHMA K	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
24.	AISWARYA SANTHOSH	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL

Sl No	Name of the Student	Semester	Name of the course	Duration	Organized by
25.	HARI MOHAN	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
26.	ANNAPOORNA S SYAM	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
27.	ATHIRA P	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
28.	JESBIN EC	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
29.	HANEENA T	S4 M.Tech	Bridge Engineering	Jul-Oct 2023	NPTEL
30.	ELIZABETH ABRAHAM	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
31.	AISWARYA EP	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
32.	ASLAMA MINNATH VK	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
33.	ASWATHI P	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
34.	GAYATHRI DINESH	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
35.	HRITHIK SUBIN KV	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
36.	IWIN FRANCIS	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
37.	JANNATHUL SHERIN CK	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
38.	JASNA FARSANA P	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
39.	JAZIBA NASLIN C N	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
40.	NUZUHA PT	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
41.	THANHA ASHRAF	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
42.	YADHU KRISHNA PS	S6 B.Tech	Air pollution and Control	Jan-April 2024	NPTEL
43.	SURYA C R	S8 B.Tech	Concrete Technology	Jan-April 2024	NPTEL
44.	AMNA P P	S4 B.Tech	Geotechnical Engineering - 1	Jan-April 2024	NPTEL
45.	PRIYAMVADA PRAKASAN M	S4 B.Tech	Geotechnical Engineering - 1	Jan-April 2024	NPTEL
46.	KRISHNA PRIYAB	S6 B.Tech	Laboratory Practices in Earth Sciences: Landscape Mapping	Jan-April 2024	NPTEL
47.	RAFEENA RAHMAN K	S6 B.Tech	Laboratory Practices in Earth Sciences: Landscape Mapping	Jan-April 2024	NPTEL
48.	AADIL MCK	S6 B.Tech	Modern Construction Materials	Jan-April 2024	NPTEL

Sl No	Name of the Student	Semester	Name of the course	Duration	Organized by
49.	AFLAHA CK	S6 B.Tech	Modern Construction Materials	Jan-April 2024	NPTEL
50.	NIHMA T	S6 B.Tech	Modern Construction Materials	Jan-April 2024	NPTEL
51.	THAHIRA T K	S6 B.Tech	Modern Construction Materials	Jan-April 2024	NPTEL
52.	MOHAMMED DILU HANNAM	S6 B.Tech	Plastic Waste Management	Jan-April 2024	NPTEL
53.	ABIJITH P	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
54.	AISWARYA RAJ	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
55.	AJNA NADIYA K A	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
56.	ANAS P N	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
57.	ANJANA G S	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
58.	ANUNANDA SASI AP	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
59.	ANUPAMA THACHATH	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
60.	DERIN GEORGE C	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
61.	DEVAPRIYA K M	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
62.	AYISHA DILSHA K	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
63.	DRISYA K	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
64.	FATHIMA RINSI M	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
65.	NISHADA JABIN PT	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
66.	RAHNA SHIRIN P	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
67.	SAHLA A P	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
68.	MUHAMMED SHAHAM C	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
69.	SRUTHAKEERTHI S	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
70.	VAISHAKHI RAM MOHAN	S4 M.Tech	Retrofitting and Rehabilitation of Civil Infrastructure	Jan-April 2024	NPTEL
71.	ASHITHA SHAJI	S6B.Tech	Water and waste water treatment	Jan-April 2024	NPTEL
72.	SONA MATHEW	S6B.Tech	Water and waste water treatment	Jan-April 2024	NPTEL

2.3.3 Achievements by the faculty members

2.3.3.1 Faculty Publications

Sl No	Name of the Faculty	Title of the Paper, Description
1	Dr. Anjana Santhakumar	Hari Mohan, Jesbin EC, Lekshmi M Nair & Anjana Santhakumar, "Studies on Ferrock Concrete", 1st International Conference 'Recent Advances In Infrastructure Development' (RAID 2024), Dept of Civil Engineering, NIT Calicut
2	Dr. Rahmathulla Noufal E.	E. Rahmathulla Noufal, "Assessment of Copper Slag as an Eco-friendly and Sustainable Alternative construction material" 37th Indian Engineering Congress of Institution of Engineers India (IEI) on Role of Engineers for creating a Sustainable & Self Reliant India on December 16-18, 2022, Tamilnadu, India Pg 121-130.
3	Dr. Rahmathulla Noufal E.	Rahmathulla Noufal, A. K. Kasthurba and J. Sudhakumar, "In-depth Assessment of Structural and Mechanical Properties of Copper Slag as an Eco-friendly Alternative Construction Material", Journal of structural Engineering August-September (2023). Vol.50, No.3, 1-11, CSIR, India.
4	Dr. Rahmathulla Noufal E.	Anupriya T M, Sreelakshmi M K, Rahmathulla Noufal E, E.S Poojalakshmi, J. Sudha Kumar, Blessan S Thomas, "Comprehensive Review on the Properties of Single-Component Geopolymer" 1st International Conference 'Recent Advances In Infrastructure Development (RAID 2024), NITC

2.4.3.2 Expert Talks Conducted outside the Department

Sl No	Name of the Faculty	Expert Talk Topic	Details
1	Dr. Ansu V.	"Mode Choice Modelling of Inter-regional Freight Transport"	for FDP on "Recent Advances in Freight Transportation" at National Institute of Technology Calicut during 17 th to 22 st Jul, 2023

2.3.3.3 Short term courses attended by the faculty

Sl No	Name of the Faculty	Name of the Program	Date & Duration	Organizing Institute
1	Dr. K. M. Kouzer	FDP on "Sustainable Environment – An Engineering Perspective, 2024"	8 th to 13 th January 2024	Assam Engineering College Guwahati
2	Dr. Rahmathulla Noufal E.	FDP on "Sustainable Environment – An Engineering Perspective, 2024"	8 th to 13 th January 2024	Assam Engineering College Guwahati
3	Dr. Ansu V.	FDP on "Counselling and Academic Mentoring"	27 th Feb to 3 rd March 2024	Vimal Jyothi Engineering College, Kannur
4	Dr. Ansu V.	Workshop on AI Tools	10 th March 2024	Be 10X
5	Anjaly K.	FDP on "Sustainable Environment – An Engineering Perspective, 2024"	8 th to 13 th January 2024	Assam Engineering College Guwahati
6	Neha Joy	FDP on "Recent Advances in Transportation Geotechnics (ReATraG'24)"	15 th to 20 th January 2024	College Of Engineering Trivandrum
7	Neha Joy	In FDP on "Advancements in FRP composites for Structural Applications" Webinar on "FRP composites for ship structures"	23 th Nov 2023	Sasi Institute of Technology & Engineering Tadepalligudem, AP

2.3.3.4 Reviewer or Chair by the faculty

Sl No	Name of the Faculty	Journal or Conference	Details of journal Paper or Conference
1	Dr. Kouzer K. M.	International Journal of Geosynthetics and Ground Engineering (IGGE), Jan 2024	Investigating the Mechanical Behaviour of Unbound Granular Material (UGM) for Road Pavement Construction Applications: A Western Victoria Case Study

2.3.3.5 Faculty doing Quality Improvement Programme

Sl No	Name of the Faculty	Programme attending
1	Shyba A	PhD at IIT Madras
2	Nasma Noor N V	PhD at IIT Bombay

2.3.4 Civil Engineering Association Activities

2.3.4.1 Expert Talk Conducted within the Department

Sl No	Title of the Program	Name of the Speaker	Date
1.	Technical Talk on “Offshore Structures”	Dr. T. P. Somasundaran, Retd. Professor, NIT Calicut	5 th December 2023
2.	Rudiments of Development Planning	Mr. Harigovind C., Former Deputy Town Planner, Kozhikode Corporation	5 th December 2023
3.	Scope and Future of GIS in Civil Engineering	Avakaza Geoscience Research Technologies	19 th March 2024

2.3.4.2 Technical Programs

Sl No	Title of the Program	Name of the Faculty Coordinator	Dates
1.	GATE 2024 Mock Test Series	Dr. Ansu V.	24 th & 29 th Jan 2024 and 3 rd Feb 2024
2.	Aptitude Test	Dr. Ansu V.	19 th Feb 2024

UG Program accreditation

NBA expert team visited the department and institute during 8th to 10th September 2023 for the re-accreditation of the Civil Engineering (UG) program. Consequently the program has been reaccredited for 3 years upto 30th June 2026. This was the culmination of hectic activities involving each and every faculty of the department for the preparation of various criteria files, refurbishing of labs and other infrastructure, display of student projects, reinforcement of OBE - all of which included the active participation of students also.

2.4 Department of Mechanical Engineering

2.4.1 Faculty and Supporting Staff

2.4.1.2 Details of Faculty members

Sl No	Name	Designation	Qualification
1	Dr. Shaji K.	Professor	PhD
2	Dr. Sajith P. P.	Professor	PhD
3	Dr. Anirudhan P.	Professor	PhD
4	Dr. Pradeep M. Kamath	Professor	PhD
5	Dr. Jesseela S.	Professor	PhD
6	Dr. Sudheesh R. S.	Associate Professor	PhD
7	Dr. Saijal K.K.	Associate Professor	PhD
8	Prof. Biju I. K.	Associate Professor	M. Tech
9	Prof. Prajeeth Kumar K. P.	Assistant Professor	M. Tech
10	Dr. Sailesh.R	Assistant Professor	PhD
11	Dr. Manu V Thottakkad	Assistant Professor	PhD
12	Dr. Jithesh P. K.	Assistant Professor	PhD
13	Dr. Francis J. Emmatty	Assistant Professor	PhD
14	Prof. Arun Shal U. B.	Assistant Professor	M. Tech
15	Prof. Subin Michael	Assistant Professor	M. Tech
16	Prof. Fouad Ebn Muhammed Abdulla	Assistant Professor	M. Tech
17	Dr. Lasithan L. G.	Assistant Professor	PhD
18	Prof. Vidhun V. R.	Assistant Professor	M. Tech
19	Prof. Nidhin Sreedas E	Assistant Professor (On QIP Ph.D. Deputation)	M. Tech
20	Dr. Neeshma Radhakrishnan	Assistant Professor (Adhoc)	PhD
21	Dr. Arun Unnikrishnan	Assistant Professor (Adhoc)	PhD
22	Prof. Muhammad Akbar T. K	Assistant Professor (Adhoc)	M. Tech

2.4.1.2 Details of Technical Staff

Sl No	Name	Designation	Qualification
1	Sri. Nithin Prakash E	Instructor Gr-I	B. Tech (ME)
2	Sri. Anil Kumar C.	Instructor Gr-II	Diploma (ME)
3	Sri. Gireesh Kumar T	Trade Instructor	ITI
4	Sri. Harish P R	Trade Instructor	ITI
5	Sri. Sujilesh K V	Trade Instructor	Diploma (ME)
6	Sri. Mohammad P T	Trade Instructor	ITI
7	Sri. Santhosh Kumar M.	Trade Instructor	Diploma (ME)
8	Sri. Sanoop S R	Trade Instructor	Diploma (ME)
9	Sri. Prashanth Koroth Madathil	Trade Instructor	Diploma (ME)
10	Sri. Jiju A K	Trade Instructor	Diploma (ME)
11	Sri. Ahammedali K K	Trade Instructor	B. Tech (ME)
12	Sri. Jamaludheen P P	Tradesman	ITI
13	Sri. Baiju A K	Tradesman	ITI
14	Sri. Janeesh Kumar K.	Tradesman	Diploma (CS)
15	Sri. Ratheesh Kumar C. G.	Tradesman	ITI
16	Sri. Muhammad Roshan	Tradesman	Diploma (CE)
17	Sri. Aswin Saneesh	Tradesman (Adhoc)	B. Tech (ME)
18	Sri. Abi Sankar K	Tradesman (Adhoc)	B. Tech (ME)
19	Sri. Sangeeth K P	Tradesman (Adhoc)	ITI
20	Sri. Athul S	Tradesman (Adhoc)	Diploma (ME)
21	Sri. Sreedarsh A P	Tradesman (Adhoc)	Diploma (ME)

2.4.2 Academic Performance

A brief account of the various academic activities and their outcome are dealt in this section.

2.4.2.1 Results of University Examinations

B. Tech Mechanical Engineering

Batch	S1			S2			S3			S4			S5			S6			S7			S8		
	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%	T	P	%
2022-23	66	29	44	66	12	18																		
2021-22	61	49	80	60	46	77	67	31	46	67	32	48	67	42	63									
2020-24	66	61	92	66	57	86	73	44	60	72	56	78	72	58	81	72	36	50	71	48	68			
2019-23	61	60	98	61	60	98	66	54	82	66	59	89	66	59	89	66	58	88	66	60	91	66	60	91

M. Tech Energy Systems Analysis and Design

Batch	S1			S2			S3			S4		
	T	P	%	T	P	%	T	P	%	T	P	%
2022-24	7	4	57	7	5	71						
2021-23	9	9	100	9	9	100	9	9	100	9	9	100

2.4.2.2 Academic Distinctions

Academic Achievements

- Following students of 2019-2023 Batch B-Tech secured highest CGPA in the university examinations conducted by KTU

		
KKE19ME060- VIGHNESH S N, CGPA- 9.51	KKE19ME058- SNEHA K S, CGPA - 9.07	KKE19ME038- MEENAKSHY JAYARAM M, CGPA - 9.03

- Following Student of 2021-23 Batch M-Tech secured highest CGPA in the University Examinations conducted by KTU
 - KKE21MEES03-AJAY E, CGPA- 9.36
- Following Students of 2019-23 Batch B-Tech qualified GATE
 - KKE19ME010-AKASH JITHESH
 - KKE19ME011-AMEEN AHAMED
 - KKE19ME029-GOKUL SOMAN
 - KKE19ME031-IJAS NAVAB C V
- Following Student of 2020-24 Batch B-Tech qualified GATE
 - KKE20ME020 DANISH HUSSAIN

2.4.2.3 Student Publications

Sl No	Name of the Students	Title of the Paper, Description
1	Aravind Ramachandran	Ramachandran, A., Arun Shal, U.B., Ramachandran, S. (2023). Thermodynamic Analysis of an Integrated OTEC-Based Multi-Generation Plant for Hydrogen and Freshwater Production. In: Maurya, A., Srivastava, A.K., Jha, P.K., Pandey, S.M. (eds) Recent Trends in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7709-1_19
2	Akhil B. Nair	Akhil B Nair, Shaji. K. and Prajeeth Kumar. K. P. (2023) Comparative analysis of solar dryer with and without heat recovery system, International Conference on Emerging Trends in Engineering, Govt. Engineering College Kozhikode.
3	Sajay Krishna	Sajay Krishna , Sudheesh R S. (2023) Energy Efficient Path Planning in Mobile Robots through Hybridization of Rapidly Exploring Random Tree and Probabilistic Roadmap Algorithms , Recent Advances in Modeling and Analysis of Thermal and Energy Systems (RAMATES-2023) Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, India
4	Abhinand T R	Abhinand T R, P K Jithesh (2023). Investigations on Transient Characteristics of Proton Exchange Membrane Fuel Cells, Recent Advances in Modeling and Analysis of Thermal and Energy Systems (RAMATES-2023) Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, India
5	Ajay Krishnan K	Ajay Krishnan K, Emmatty, F. J.(2023) Numerical investigation of thermal performance of cylindrical lithium ion batteries using composite helical fin with PCM, International Conference on Recent Trends in Engineering Technology and Management 2023, Christ the King Engineering College Coimbatore.

2.4.2.4 Online Courses attended by students

Sl No	Name of the Student	Semester	Name of the course	Duration	Organized by
1	ABHIRAG K V	S6	Nature And Properties Of Materials	8 Weeks	NPTEL/ IIT Kanpur
2	AJAY P S	S6	Non-conventional energy resources	12 Weeks	NPTEL/ IIT Madras
3	AKHIL JOHNSON	S6	Product design and manufacturing	12 Weeks	NPTEL/ IIT Kanpur
4	AMAN BILAL HILAR N P	S6	Operations management	12 Weeks	NPTEL/IIT Roorkee (IITR)
5	ANN ROSHEAL	S6	Operations management	12 Weeks	NPTEL/IITR
6	FATHIMA RINSHA K	S6	Operations management	12 Weeks	NPTEL/IITR
7	GOUTHAM S	S6	Mechatronics	8 Weeks	NPTEL/IITR
8	HARIGOVIND T P	S6	Earth Science for Civil Engineering	8 Weeks	NPTEL/ IIT Kanpur
9	HARIGOVIND T P	S6	Basic Construction Materials	12 Weeks	NPTEL/ IIT Madras
10	HIBA SHERIN V	S6	Operations management	12 Weeks	NPTEL/IITR
11	KARTHIK S	S6	Nature And Properties Of Materials	8 Weeks	NPTEL/ IIT Kanpur
12	MUHAMMAD FAHAM E M	S6	Work ,system and design	12 Weeks	IIT Roorke
13	MUHAMMED HAYAN K E	S6	Non-conventional energy resources	12 Weeks	NPTEL/ IIT Madras
14	MUHAMMED K K	S6	Non-conventional energy resources	12 Weeks	NPTEL/ IIT Madras
15	MUHAMMED SHAMEEL S	S6	Operations management	12 Weeks	NPTEL/IITR
16	MUHAMMED UWAIS	S6	Non-conventional energy resources	12 Weeks	NPTEL/ IIT Madras
17	NADHA P	S6	Operations management	12 Weeks	NPTEL/IITR
18	NANDAKISHOR K	S6	Non-conventional energy resources	12 Weeks	NPTEL/ IIT Madras
19	NANDANA SUNIL	S6	Operations management	12 Weeks	NPTEL/IIT Roorkee
20	NITHIN N	S6	Operations management	12 Weeks	NPTEL/IITR
21	SREESHANKAR K	S6	Power Plant Engineering	8 Weeks	NPTEL/IITR
22	VIGHNESH	S6	Basic Construction Materials	12 Weeks	NPTEL/ IIT Madras
23	Surya S Nair	S8	MS Excel		Shape AI
24	Sanin Muhammed	S8	Mechatronics	8 Weeks	NPTEL/IITR
25	Surya S Nair	S8	Electric and future mobility	22/5/2021	KSEB
26	Sabeel Ali	S8	Vedic Maths	Aug 26-27	iste sc Rit
27	Sonu Satheesh S	S8	Vedic Maths	Aug 26-27	iste sc Rit

2.4.3 Achievements by the faculty members

2.4.3.1 Faculty Publications

Sl No	Name of the Faculty	Title of the Paper, Description
1	Dr. Sailesh.R	Sailesh, R., Doddamani, M., Mailan Chinnapandi, L. B., Yuvaraj, L., & Pitchaimani, J. (2023). Sound absorption and transmission loss of 3D printed wood fibre reinforced poly lactic acid with functionally graded perforations. <i>Wood Material Science & Engineering</i> , 1-12.
2	Dr. Francis J. Emmatty	Lasin, P., Panicker, V. V., & Emmatty, F. J. (2023). Assessment of mental workload in a sorting task: a game-based approach. <i>International Journal of Industrial and Systems Engineering</i> , 43(4), 529-554.
3	Prof. Arun Shal U. B.	Ramachandran, A., Arun Shal, U.B., Ramachandran, S. (2023). Thermodynamic Analysis of an Integrated OTEC-Based Multi-Generation Plant for Hydrogen and Freshwater Production. In: Maurya, A., Srivastava, A.K., Jha, P.K., Pandey, S.M. (eds) <i>Recent Trends in Mechanical Engineering. Lecture Notes in Mechanical Engineering</i> . Springer, Singapore. https://doi.org/10.1007/978-981-19-7709-1_19
4	Dr. Shaji K.	Akhil B Nair, Shaji. K. and Prajeeth Kumar. K. P. (2023) Comparative analysis of solar dryer with and without heat recovery system, <i>International Conference on Emerging Trends in Engineering</i> , Govt. Engineering College Kozhikode.
5	Dr. Sudheesh R. S.	Sajay Krishna , Sudheesh R S. (2023) Energy Efficient Path Planning in Mobile Robots through Hybridization of Rapidly Exploring Random Tree and Probabilistic Roadmap Algorithms , <i>Recent Advances in Modeling and Analysis of Thermal and Energy Systems (RAMATES-2023)</i> Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, India
6	Dr. Jithesh P. K.	Abhinand T R, P K Jithesh (2023). Investigations on Transient Characteristics of Proton Exchange Membrane Fuel Cells, <i>Recent Advances in Modeling and Analysis of Thermal and Energy Systems (RAMATES-2023)</i> Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, India
7	Dr. Francis J. Emmatty	Ajay Krishnan K, Emmatty, F. J.(2023) Numerical investigation of thermal performance of cylindrical lithium ion batteries using composite helical fin with PCM, <i>International Conference on Recent Trends in Engineering Technology and Management 2023</i> , Christ the King Engineering College Coimbatore.

2.4.3.2 Faculty Patents

Sl No	Name of the Faculty	Patent Description
1	Dr. Sudheesh R. S.	Seema Ansari, Muralidharan Malamal Neelanchery, Arathy Kottapurath, Eva Ignatious, Ranjith Kizhupadath Ravindran, Deepak Puthan Purayil, Sudheesh Raveendran Nair Sarojini, Satheesan Balasubramanian; US Patent No: US011793408B2, METHOD AND SYSTEM FOR PREDICTING LOCATION AND DEPTH OF ABNORMAL TISSUE IN BREAST OF SUBJECT, Date of Patent: 24/10/2023
2	Dr. Francis J. Emmatty	Panicker, V.V., Emmatty, F.J., & Baradwaj K.C., Indian Patent No. : 470923, Application No. 201941016523A. A LINEAR SORTING TABLE WITH MANUALLY MOVABLE PALLETS (Date of filing application: 25/04/2019, publication date: 03/05/2019, Date of grant: 21/11/2023).
3	Dr. Francis J. Emmatty	Panicker, V.V.,Raghavan, Rahul; Emmatty, F.J.;P., Giridhar M., Indian Patent No. : 522113, Application No. 202041050568A. MULTI-UTILITY PLOGGING BAG (Date of filing application: 20/11/2020, publication date: 04/12/2020, Date of grant: 08/03/2024).

2.4.3.3 Short term courses coordinated by the faculty

Sl No	Name of the coordinator(s)	Name of the Program	Date & Duration	Sponsored by
1	Prof. Vidhun V. R.	Two-Day Workshop on Single Cylinder Automotive CRDI Engine Test Setup with Open ECU	March 11 to March 12, 2024, 2 days	CCE GEC Kozhikode

2.4.3.4 Expert Talks Conducted within the Department

Sl No	Title of the Talk	Name of the Expert and Affiliation	Dates
1	Hands on training Workshop on Ansys Fluent software	Prof. Arun Shal U B, GEC Kozhikode	13/03/2024

2.4.3.5 Short term courses attended by the faculty

Sl No	Name of the Faculty	Name of the Program	Date & Duration	Organizing Institute
1	Dr. Pradeep M. Kamath	EV TECHNOLOGY AND BATTERY MANAGEMENT SYSTEM	15/01/2024 to 19/01/2024, 5 Days	GEC Kozhikode
2	Prof. Subin Michael	EV TECHNOLOGY AND BATTERY MANAGEMENT SYSTEM	15/01/2024 to 19/01/2024, 5 Days	GEC Kozhikode
3	Prof. Subin Michael	ADVANCED ENTREPRENEURSHIP-CUM-SKILL DEVELOPEMENT PROGRAMME(E-SDP)	18/12/2023 to 23/12/2023, 6 Days	National Institute Of Technology Calicut
4	Prof. Subin Michael	METAVVERSE, AR AND VR	11/12/2023 to 15/12/2023, 6 Days	GEC Kozhikode
5	Dr. Francis J. Emmatty	EV TECHNOLOGY AND BATTERY MANAGEMENT SYSTEM	15/01/2024 to 19/01/2024, 5 Days	GEC Kozhikode
6	Dr. Francis J. Emmatty	Prospective and Innovative Trends in Financial Engineering	11/12/2023 to 16/12/2023, 6 Days	CET
7	Prof. Arun Shal U B	Tackling Computational Fluid Dynamics and Heat Transfer problems using OpenFOAM	19 to 24 February 2024, 6 Days	FOSSEE funded by the MoE

2.4.3.6 Report on Two-Day Workshop on Single Cylinder Automotive CRDI Engine Test Setup with Open ECU

The Two-Day Workshop on Single Cylinder Automotive CRDI Engine Test Setup with Open ECU, organized by the Department of Mechanical Engineering and CCE GECK, took place from March 11 to March 12, 2024, at the Energy Systems Lab, GEC Kozhikode. The workshop sessions were conducted by Mr. Sachin, Assistant Manager at Medhaavi Center for Automotive Research, Hoshiarpur, Punjab. The sessions covered various aspects of CRDI technology, including overview of the components of the CRDI engine, Hands-on experiments with engine parameters and control strategies, Configuration and calibration of the Open ECU for the engine, Data acquisition techniques and engine testing procedures.

The primary objectives of the workshop were as follows:

- To familiarize participants with CRDI engine technology.
- To provide hands-on experience with engine parameters and control strategies.
- To enable participants to configure and calibrate the Open ECU for the engine.
- To facilitate data acquisition, analysis, and engine testing procedures.



2.5 Department of Computer science and Engineering

Faculty and Supporting Staff

Coordinator : Dr. Bindima T. (Associate Professor, Applied Electronics and Engineering)

Details of Faculty members

Sl. No.	Name	Designation	Qualification
1	Mrs. Shahana T	Assistant Professor (Adhoc)	M.TECH
2	Mrs.Sruthimol M P	Assistant Professor (Adhoc)	M.TECH
3	Ms.Adithya C H	Assistant Professor (Adhoc)	M.TECH
4	Mrs.Shajila Majeed	Assistant Professor (Adhoc)	M.TECH

Academic Performance

A brief account of the various academic activities and their outcome are dealt in this section.

Results of University Examinations-B. Tech Computer Science and Design

Batch	S1			S2		
	T	p	%	T	P	%
2023-2027	69	53	76.81			
2022-2026	63	45	71.43	63	48	76.1

Academic Achievements

The students have been performing well in their semester exams with a pass percentage of around 76%. Following students of 2022-26 batch B-tech Computer Science and Design engineering secured high CGPA in the second semester university examination conducted by KTU.



SHREYA BAIJU
CGPA:9.81



RIFANA SHERIN
CGPA:9.62



LIYA FATHIMA
CGPA:9.31

Following students of 2023-27 batch B-tech Computer Science and Design engineering secured high CGPA in the first semester university examination conducted by KTU



SREEPARVATHI
CGPA:9.82



SHYMA SUHRA
CGPA:9.56



ANJANA N M
CGPA:9.29

Achievements in Extracurricular Activities

- Fathima Fadwah, participated in inter university handball competition held at Salem.



- Lavya Shaji, participated in the university sports meet in 800 meter running race.



- Amal shahan, participated in F zone inter college cricket tournament.



Online Courses attended by students

NAME	SEM	NAME OF THE COURSE	DURATION	CERTIFICATION
KRISHNAVENI S S	S4	DATABASE MANAGEMENT SYSTEM	8 WEEKS(JAN-MAR 2024)	NPTEL
PRIYANKA PRADEEP	S4	DATABASE MANAGEMENT SYSTEM	8 WEEKS (JAN-MAR 2024)	NPTEL
SANIA K S	S4	CYBER SECURITY CADET PROGRAM BY KKEM AND TECHNOVALLEY	3 MONTHS	KERALA KNOWLEDGE ECONOMY MISSION
RIDA THARIQ	S4	CYBER SECURITY CADET PROGRAM BY KKEM AND TECHNOVALLEY	3 MONTHS	KERALA KNOWLEDGE ECONOMY MISSION
PRIYANKA PRADEEP	S4	CYBER SECURITY CADET PROGRAM BY KKEM AND TECHNOVALLEY	3 MONTHS	KERALA KNOWLEDGE ECONOMY MISSION
SANDRA ALEX	S4	CYBER SECURITY CADET PROGRAM BY KKEM AND TECHNOVALLEY	3 MONTHS	KERALA KNOWLEDGE ECONOMY MISSION
ARATHY JOSE	S4	CYBER SECURITY CADET PROGRAM	3 MONTHS	KERALA

		BY KKEM AND TECHNOVALLEY		KNOWLEDGE ECONOMY MISSION
KRISHNAVENI S S	S4	CYBER SECURITY CADET PROGRAM BY KKEM AND TECHNOVALLEY	3 MONTHS	KERALA KNOWLEDGE ECONOMY MISSION
ALWIN V P	S4	AUTODESK MAYA	8 WEEKS	NPTEL

FDP / STTP / TRAINING / WORKSHOP attended by the faculty

Sl. No.	Name of faculty	FDP / STTP	FDP / STTP Attended	Dates of FDP	Number of days
1	SHAHANA T	FDP	MetaVerse AR and VR	11/12/23-15/12/23	5

Programs organized by CSD Association

1.ADVIKA COLLEGE UNION 2023-24 COMPUTER SCIENCE AND DESIGN ASSOCIATION INAUGURATION On 19 February 2024

The Computer Science And Design Association Inauguration for the year 2023-2024 was held on 19th February 2024. It was organized by the faculties and students of the Computer Science Department with great enthusiasm and anticipation under the college union "Advika". The inaugural ceremony marked the beginning of the transformative journey towards excellence in the department. The event began with an insightful welcome address by Association Advisor Prof. Sruthimol M.P. She introduced the Chief Guest of the day Mr. Sasi Pallicheri Meethal, who was the former director of CDAC, former CEO of Technopark, Infopark, former CEO of Kerala Startup Mission. She expressed her thanks to the Chief Guest for accepting the invitation. This was followed by the presidential address from principal, government engineering college Kozhikode Dr. P C Reghu Raj. The Chief Guest of the day, Mr. Sasi Pallicheri Meethal, inaugurated the ceremony. The event proceeded further with the special address from the Head of the CSD department, Dr.Bindhima T which reflected the remarkable journey of the department.



This was followed by the chief guest's address where he provided valuable insights into the latest technologies shaping the fast-moving world, particularly in the field of biomedicine. Additionally, the Chief Guest shared personal anecdotes and reflections on skill improvement and their career journey, inspiring the audience to pursue excellence and innovation in their endeavors. Muhammed Shameel the College Union General Secretary had given his felicitation, and thanked everyone on behalf of the College Union and expressed his views and support towards the department. Prof. Sreeram M had addressed the students and shared his delight at witnessing the journey of the department. He congratulated the students for organizing the event and reaffirmed his support for the department's growth and success.



The Chief Guest was honored with a memento by the College Principal as a token of appreciation and gratitude from the institution. The inaugural ceremony concluded with a Vote of Thanks by Computer Science and Design UG department representative Darshan S. He extended his thanks to the chief guest ,all the attendees , teachers, staffs and students on behalf of the Computer Science And Design association for making the inauguration a memorable and enriching experience

2. CYBER SECURITY TALK SESSION

The Computer Science and Design Association of Government Engineering College Kozhikode has successfully conducted a talk session on Cyber Security.This was the first event of the association after its formation. The event was conducted on 22 February 2024 at the Placement hall. Students of the computer science and design department took part in the event. The talk session was led by Mr. Civic V Chako, an esteemed cyber security expert.Dr. Bindhima T , the head of the department had given the presidential address.



He delivered a presentation covering various cybersecurity topics, engaging them with his expertise and practical insights. The session included an interactive discussion facilitated by, where attendees had the opportunity to engage, ask questions, and seek clarification on cybersecurity-related topics. The discussion fostered knowledge sharing and enabled participants to gain deeper insights into key cybersecurity concepts. The event concluded with a Vote of Thanks by Computer Science and Design UG department representative Darshan S. He extended his thanks to the chief guest ,all the attendees for making the event a successful one.The event reaffirmed the Computer Science Department's commitment to promoting cybersecurity education and creating awareness about the importance of cybersecurity in today's digital age.

2.6 Department of Applied Science

2.5.1 Faculty and Supporting Staff

2.5.1.1 Details of faculty members (April 2023 to August 2023)

Sl. No:	Name	Designation	Qualification
1.	Dr.V.N. Mohamed	Associate Professor of Mathematics & HOD	Ph.D
2.	Dr.Vijayalakshmi Menon	Asst. Professor of Mathematics	Ph.D
3.	Dr.Beena K.B.	Asst. Professor of Chemistry	Ph.D
4.	Sri. Shabin P	Asst. Professor of Mathematics	M.Sc
5.	Dr.Rojisha V.C.	Asst. Professor of Chemistry	Ph.D
6.	Dr.Jasila K	Asst. Professor of Chemistry	Ph.D
7.	Smt. Anupa T.	Asst. Professor of Physics	M.Sc, M.Phil
8.	Dr.Jayakumar M.	Asst. Professor of Physical Education	Ph.D

Details of faculty members (September 2023 to March 2024)

Sl. No:	Name	Designation	Qualification
1.	Dr.V.N. Mohamed	Associate Professor of Mathematics & HOD	Ph.D
2.	Dr.Anuradha N	Associate Professor of Mathematics	Ph.D
3.	Dr. Vijayalakshmi Menon	Asst. Professor of Mathematics	Ph.D
4.	Dr.Beena K.B.	Asst. Professor of Chemistry	Ph.D
5.	Sri.Shabin P	Asst. Professor of Mathematics	M. Sc
6.	Dr.Rojisha V.C.	Asst. Professor of Chemistry	Ph.D
7.	Dr. Jasila K	Asst. Professor of Chemistry	Ph.D
8.	Smt. Anupa T.	Asst. Professor of Physics	M.Sc, M.Phil
9.	Sri.Jayakumar M.	Associate Professor of Physical Education	Ph.D

2.5.1.2 Details of Technical staff

Sl.No:	Name	Designation	Qualification
1.	Smt.Rajasree R.	Demonstrator in Chemistry	M.Sc, B.Ed

2.5.2 Achievements by Faculty members

2.5.2.1 Short term/Refresher courses attended outside the Institution

Sl.No	Name of staff	Courses attended
1.	Dr. Beena K. B	Refresher course in Environmental studies
2.	Dr. Jasila K.	Refresher course in ICT and online teaching at MMTTC, University of Calicut
3.	Dr. Rojisha V.C.	Short term course in Research Methodology, Refresher course in ICT and online teaching at MMTTC, University of Calicut

2.5.2.2 Responsibilities Undertaken in the College

Name of staff	Responsibilities
Dr.V.N. Mohamed	<ol style="list-style-type: none"> 1. Head of the Department. 2. Convenor of University Exam and Internal Exam Squad.
Dr.Anuradha N	<ol style="list-style-type: none"> 1. Convenor of Room Allocation Committee. 2. Member of Grievance Redressal and Appeal Committee for Students, Staff and Faculty.
Dr. Vijayalakshmi Menon	<ol style="list-style-type: none"> 1. Member of Library Committee 2. Member of Anti- Sexual Harassment Committee/ Internal Complaints Cell/ Vanitha Cell/ Gender Justice Forum.
Dr.Beena K.B.	<ol style="list-style-type: none"> 1. Scholar Support Programme and Remedial Class Coordinator. 2. Member of Institute Purchase Committee. 3. Accreditation Coordinator of Applied Science.
Sri.Shabin P	<ol style="list-style-type: none"> 1. University Examination Chief Superintendent. 2. Member of Disciplinary Action/Ethics Monitoring Committee
Dr.Rojisha V.C.	<ol style="list-style-type: none"> 1. Member of Website/ Networking/ CCF/Journal Subscription Committee. 2. Member of Internal Exam Cell Committee. 3. Member of Time Table Workload Committee. 4. TEQIP-II Finance Coordinator. 5. Member of CoRaL.
Dr. Jasila K	<ol style="list-style-type: none"> 1. S1/S2 Valuation Camp Officer 2. Member of Academic Monitoring Committee.
Smt. Anupa T.	<ol style="list-style-type: none"> 1. Member of Activity Report Preparation Committee. 2. Member of IQAC and AICTE360FEEDBACK Committee. 3. Member of Arts club Committee/Sports Council.
Dr.Jayakumar M.	<ol style="list-style-type: none"> 1. Convenor of Sports Council 2. Member of Anti Ragging Squad. 3. Member of Maintenance and Safety Committee.

3. ACTIVITIES OF IEEE (SB : STB07931)

SL NO	EVENT NAME	ABOUT THE EVENT	PHOTOS
1	SEGUEIRA	SEQUEIRA was an online quiz competition conducted on March 14, 2023. It was a 15-minute quiz from 7:45 to 8:00 p.m. on behalf of science week. The total number of participants was 70, including 43 IEEE members. The winner of the quiz was Anjana Priya of the S4 Civil Department. The event was so exciting and boosted the scientific minds of the techies.	 <p>The poster for the Sequeira Quiz Competition features a purple background with the IEEE logo at the top right. The title 'Sequeira' is written in a large, white, cursive font, with 'WINNERS' in bold white letters below it. Five circular portraits of winners are displayed, each with a medal icon. The winners listed are: Anjana Priya (S4 CE), Muhammed Mubaris P (S4 EC), Ashrith P (S4 AE), Hasna Mumthas (S4 CE), and Muhammed Iqbal PK (S4 EC). The word 'Congratulations' is written in a white cursive font at the bottom. Contact information for IEEE Student Branch GEC Kozhikode is provided at the bottom left and right.</p>
2	TECHSCRIBE	The IEEE Student Branch of GEC Kozhikode has conducted a technical writing competition on the topic 'Augmented Reality' named "TECHSCRIBE" as a part of the Science Month celebration. The event was conducted with the motive of making students aware of their writing skills, conducting research, and learning more about the provided topic.	 <p>The poster for the Techscribe Writing Competition has a light blue background with the IEEE logo at the top right. The title 'TECHSCRIBE' is in bold black letters, with 'WINNERS' in purple below it. Two circular portraits of winners are shown with medal icons. The winners are Srijila Pillai (S4 CH) and Ameya Arul (S2 CSD). The word 'Congratulations' is written in a white cursive font at the bottom. Contact information for IEEE Student Branch GEC Kozhikode is provided at the bottom left and right.</p>
3	REBUTTAL REBELS	A virtual debate competition as a part of science week, titled REBUTTAL REBELS, was conducted on the theme "Can Human Cloning Technology Be a Boon to Society?." on March 15, 2023, from 7:00 to 8:30 PM. The winner of the debate was Aparna M. S. of the S8 ECE Department. The aim of organising the debate competition was to enhance the public speaking skills of the students and teach them how to effectively articulate their thoughts and opinions.	 <p>The poster for the Rebuttal Rebels Debate Competition has a dark red and blue background with the IEEE logo at the top right. The title 'REBUTTAL REBELS' is in bold white letters, with 'WINNERS' in large white letters below it. The word 'Congratulations' is written in a white cursive font. Five circular portraits of winners are shown with medal icons. The winners listed are: Aparna M S (S8 EC), Vigneshia SN (S3 ME), Ameya Arul (S2 CSD), and Fatima Fiza (S4 CE). The word 'Congratulations' is written in a white cursive font at the bottom. Contact information for IEEE Student Branch GEC Kozhikode is provided at the bottom left and right.</p>

4	ANNUAL GENERAL MEETING 2023	<p>The IEEE SB GECKKD conducted its annual general body meeting on March 31st, 2023, where members gathered to reflect on the achievements of the past year, plan for the future, and announce the new EXECOM 2023. Prof. Sreeram M., Vice Chair of the SAC Malabar Hub, recited the IEEE Code of Ethics for the attendees of the event. The presidential address was delivered by Dr. Bindima T, the branch counsellor and chairperson of the IEEE Malabar Subsection. SB Secretary'22, then presented the Annual Report of the Year 2022, which was a comprehensive overview of the SB's activities and achievements over the past year. Prof. Job Chungath, Secretary of the IEEE Communication Society Kerala Section, announced the new EXECOM 2023, The event then proceeded to the memento distribution and award ceremony, where the outstanding and outgoing volunteers of IEEE SB GECKKD were honoured for their contributions. In conclusion, the Annual General Body Meeting of IEEE SB GECKKD was a successful event that brought members together to reflect on the achievements of the past year and plan for the future.</p>	 <p>The poster for the Annual General Meeting 2023 features a group photo of attendees in a hall. At the top, it lists logos for IEEE Student Branch, SAC Malabar Hub, IEEE, and IEEE Kerala Section. The text 'ANNUAL GENERAL MEETING 2023' is prominently displayed. At the bottom, it includes the email 'ieeebhgeckkd@gmail.com' and the Instagram handle '@ieeebhgeckkd'.</p>
5	MD SESSION AND LEADERSHIP TRAINING	<p>IEEE SB GECKKD conducted a MEMBERSHIP DEVELOPMENT AND LEADERSHIP TRAINING on April 1, 2023. The session began with a warm welcome by Dr. Bindima T., the branch counsellor. It was then followed by a brief introduction from Nikhil Das, MDC of IEEE MALABAR HUB. After the introduction, the session was handed over to the main speaker, Prof. Jithin K. Jose, Vice Chair of Membership Development, IEEE KERALA SECTION. The session was entertaining as well as informative, with a lot of engaging activities that helped to understand how to take a leadership role while dealing with both positive and negative sides. Around 93 students attended the programme.</p>	 <p>The poster features a portrait of Prof. Jithin K. Jose. The text reads: 'Thank you Sir For sharing your insights with us through this wonderful session'. It also includes the IEEE Student Branch logo and the IEEE logo at the top, and the Instagram handle '@ieeebhgeckkd' at the bottom.</p>

6	PYCKATHON	<p>An online session called "PYCKATHON" was conducted on April 12, 2023, which was aimed at teaching the basics of Python and giving an insight into hackathons. The session was handled by Kartik K, vice chair, IEEE Kerala YP Lead Coordinator, Funding Committee, IEEE R10 SAC, on the Google Meet platform. There were thirty active participants.</p>	
7	ERFENIS	<p>IEEE SB GEC Kozhikode organised Erfenis, a quiz competition, as a part of World Heritage Day. The main aim was to give the students an opportunity to look back on Indian heritage. The event had 22 participants: 15 IEEE members and 7 non-IEEE members. This event was coordinated by Sarmishta Sajeev and Neethu L. Anil.</p>	
8	AUGMENT-X	<p>In today's world, where there are leaps in the AR industry, IEEE SB GECKKD has successfully organised "AugmentX," an offline session handled by SALIH YOOSAF, Virtual Events & Partnership Associate, ENTRI App. It was conducted on April 25, 2023, from 9:30 a.m. to 4:30 p.m. It was a hands-on session, as everyone got to try it out as soon as a particular topic was taught. The topics concluded from an introduction to AR to making stickers and videos using AR. The session taught everyone the necessary skills to start their journey into the world of AR.</p>	
9	MD SESSION	<p>Cluster 1, associating IEEE SB GECKKD, IEEE SB AWH, IEEE SB VVIT, and IEEE SB NIELIT, organised a "Membership Development" session on May 15, 2023, handled by Mr. Karthik K, vice chair, IEEE KERALA YP, and lead coordinator, funding committee, IEEE R10 SAC. The session aimed at providing both IEEE and latent volunteers with a complete idea of the benefits of IEEE and networking opportunities as the world's largest technical professional organisation, leadership opportunities, professional development, recognitions and awards, participating in conferences, etc.</p>	

10	ELECTRO-REV	<p>Electro-Rev Electric vehicles have gained significant momentum in recent years as a means of sustainable transportation, contributing to efforts aimed at combating climate change and promoting energy efficiency. In order to understand and address thermal runaway, which is vital for the safe and successful integration of electric mobility into our transportation system, Cluster 1 has organised a talk session on the topic “Electric Vehicles: Thermal Runaway,” with Mr. Abhinav R, junior research fellow, IIT Palakkad; Secretary, IEEE SIGHT Kerala Section, as our speaker. The session outlined the causes of thermal runaway and incorporated safety features and management systems like battery management, thermal management, testing, standards, etc.</p>	
11	MIND MATRIX	<p>MIND MATRIX, an aptitude test, was conducted under REVAMP COMPETE on May 19, 2023, from 8.00 to 8.45 p.m. The event aimed to help participants assess their cognitive abilities, problem-solving skills, and aptitude across various domains. The test was designed to include multiple-choice questions that covered various aptitude domains such as mathematics, verbal reasoning, logical reasoning, and data interpretation. The questions were carefully crafted with the help of some post-graduates from various colleges to ensure a fair assessment for all participants, with a balance between difficulty levels.</p>	
12	WEB DETECTIVE	<p>The event “WEB DETECTIVE” was conducted under REVAMP COMPETE. It's a treasure hunt based on solving the different clues and tasks given. There were five locked folders. The key for the first folder was given to the players; the keys for the next folders were to be obtained by solving the questions and doing the tasks in the previous folders. This tests the player's critical thinking, logical thinking, observation skills, and patience. Different from other technical events, instead of giving knowledge, this was more of a testing of the technical skill.</p>	

13	TECHXPLORE	<p>IEEE SB GEC KOZHIKODE conducted TECHXPLORE as a pre-event of Road Map to Success in Engineering Studies in collaboration with IEEE SB NITC and IEEE MALABAR SUB SECTION. The event mainly focused on students from 9th grade to 12th grade to help them explore more about engineering studies. The speaker for the event was Muhammed Akbar KK, Director and Product Designer, Birdeye Technologies LLP, Calicut.</p> <p>The event focused on app development and 3D product design using MIT App Inventor and Tinkercad, which is highly relevant for high school students exploring engineering studies. 66 students attended the session, out of almost 55 students in the 12th grade.</p>	
14	DISTINGUISHED LECTURE PROGRAM	<p>IEEE SB GECKKD successfully conducted a Distinguished Lecture Programme on the topic "Intuitive Control of Bionic Limbs for Amputees and People with Spinal Cord Injuries," organised by the IEEE SPS Kerala Chapter and IEEE Malabar Subsection on August 18, 2023. The session was handled by Prof. V. John Mathews, School of Electrical Engineering and Computer Science Department, Oregon State University. The total number of participants for the event was 55, which includes 18 IEEE members and 37 non-IEEE members.</p>	
15	WEB DEVELOPMENT	<p>On November 11, 2023, IEEE SB GECKKD started an engaging web development bridge course exclusively for IEEE members of GECKKD, led by Vaishnav SL, an adept S3 CSD student. It was a hands-on session that started with the basics, fostering immediate application. Real-time discussions on common mistakes enhanced the learning experience. Overall, the course equipped participants with essential web development skills for their journey into this dynamic field.</p>	

16	COGNIZE	<p>On May 11, 2023, IEEE IAS GECK SBC, in collaboration with IEEE IAS VJEC SBC and IEEE IAS GCEK SBC, organised a session titled "COGNIZE." The session aimed to provide an introduction to the IEEE IA, IE, and PELS Societies as part of "LA GUERRE," the cluster war competition hosted by IEEE IA/IE/PELS Jt. Chapter Kerala. The speakers were Fathima Muhsina K, design lead, IEEE IA/IE/PELS Jt Chapter Kerala, who provided an in-depth presentation on the IEEE Industry Applications Society (IAS), and Joel Siby Varghese, HAC Coordinator, IEEE IA/IE/PELS Jt Chapter Kerala, who focused on the IEEE Industry Electronics Society (IES) and the Power Electronics Society (PELS). The session saw participation from approximately 25 attendees.</p>	 <p>The poster for the COGNIZE event features a dark background with the IEEE logo at the top right. The title 'COGNIZE' is prominently displayed in white, with the subtitle 'Introduction to IEEE IA, IE & PELS Societies' below it. Two circular portraits of the speakers, Fathima Muhsina K and Joel Siby Varghese, are shown. The event is scheduled for Thursday, May 11, at 7:30 pm. A Google Meet link is provided, and the registration URL is bit.ly/IEEE_COGNIZE. Logos for IEEE SB GCEK and IEEE Student Branch are also present.</p>
17	FABRICON	<p>FABRICON, a series of events conducted by IAS SBC GECKKD from May 26th to May 31st. It included THINK-TANK, an idea pitching competition; TRANSPIRE, redesigning our campus; and INFUTRA, a visualisation competition.</p>	 <p>The FABRICON poster has a green background with a white grid pattern. The title 'FABRICON' is in large white letters, with the tagline 'THINK . PLAN . IMPLEMENT' below it. The text 'COMING SOON' is at the bottom. The IEEE Student Branch and IEEE logos are at the top. Contact information for IEEE SB GECKKD is provided at the bottom.</p>
	THINK-TANK	<p>The "Think-Tank" event, hosted by IEEE IAS SBC GECKKD, was an online idea pitching competition held from May 26 to May 30, 2023. Its aim was to foster creativity and innovation among participants by providing a platform for sharing ground breaking ideas. The number of participants was 14.</p>	 <p>The THINK-TANK poster features a green background with a white grid pattern. The title 'THINK-TANK' is in large white letters, with the subtitle 'IDEA PITCHING COMPETITION' below it. A QR code is provided for registration, along with the deadline '30-05-23, 8 PM'. The IEEE Student Branch and IEEE logos are at the top. Contact information for IEEE SB GECKKD is provided at the bottom.</p>

	INFUTRA	<p>INFUTRA, organized by IEEE IAS SBC GECKKD, was an online competition held from May 28th to May 31st, 2023. Participants were challenged to visualize the future of industries by submitting their entries digitally. The event emphasised the importance of visualisation in driving progress and innovation. The total number of participants was 12.</p>	 <p>The poster for 'INFUTRA VISUALIZATION COMPETITION' features a green background with a grid pattern. It includes the IEEE Student Branch logo, a QR code, the deadline '31-05-23, 8 PM', and contact information for Ashinad T. 759897005 and Ashinad P. 759408005.</p>
	TRANSPIRE	<p>TRANSPIRE, organised by IEEE IAS SBC GECKKD, was an online competition held from May 27th to May 31st, 2023.</p> <p>Participants have to redesign our campus themselves. Since the competition was conducted entirely online, only digital entries were accepted.</p> <p>Evaluation criteria included influence on the campus community, sustainability, space utilisation, and innovation.</p> <p>TRANSPIRE gave participants a forum to unleash their creativity by renovating the campus.</p>	 <p>The poster for 'TRANSPIRE REDESIGN OUR CAMPUS' has a green background with wavy lines. It features the IEEE Student Branch logo, a QR code, the deadline '31-05-23, 8 PM', and contact information for Ashinad P. 7492719215 and Afroz P. 7492169115.</p>
18	SPIN THE FLO	<p>WIE, AG of IEEE GECKKD, conducted a quiz competition named "SPIN THE FLO" as a part of the "WOMAN'S DAY" celebration on March 8, 2022, at 4.30 pm. The quiz was based on menstruation, general knowledge, and films where women played major characters. The event was conducted with the motive of identifying the value of women, the importance of equality in our society, and creating fun.</p>	 <p>The poster for 'SPIN THE FLO' is for a Women's Day Celebration. It features a colorful wheel of fortune graphic. The text includes 'Women's Day Celebration', 'SPIN THE FLO', 'DATE: 08/03/2023 DIAMOND', and 'Exciting Prizes Waiting For You'. It also lists queries for Ashinad P. 759897005 and Ashinad T. 759408005.</p>

19	TRAILBLAZEX	<p>IEEE Women in Engineering (WiE) GECKKD, in collaboration with WiE chapters of Vimal Jyothi Engineering College, Government Engineering College, Wayanad, and College of Engineering, Adoor, organized a captivating event named "TrailblazeX."</p> <p>This event, consisting of a series of three competitions, aimed to inspire participants' imaginations and invent skills. TrailblazeX took place from May 11th to May 13th, attracting WiE members from various colleges and universities. The event offered an exciting opportunity for participants to showcase their talent and win attractive prizes.</p>	 <p>The poster for TrailblazeX features the IEEE logo at the top right. The title "TRAILBLAZEX" is prominently displayed in a large, gold, serif font. Below the title, the tagline "IMAGINE. INVENT. INSPIRE" is written in a smaller, white, sans-serif font. The text "- 3 COMPETITIONS -" is centered, followed by the dates "11,12,13 MAY 2023". A gold plus sign is positioned to the left of the text "Cash Prize IN" and "EXCLUSIVELY FOR WOMEN". The bottom of the poster includes logos for IEEE Student Branch, Vimal Jyothi Engineering College, Government Engineering College, Wayanad, and College of Engineering, Adoor.</p>
20	LOGOFLEX	<p>As part of TrailblazeX, IEEE SB GECKKD conducted LOGOFLEX, a logo-making competition. Participants were required to design a logo based on the theme "BREAKING BARRIERS," symbolising the efforts of women in overcoming obstacles in the engineering field. The competition encouraged participants to showcase their creativity and problem-solving skills through visual representation.</p>	 <p>The poster for Logoflex features the IEEE logo at the top right. The title "LOGOFLEX" is prominently displayed in a large, gold, serif font. Below the title, three circular portraits of winners are shown, each with their name and college affiliation: FATHIMA HEENAN (54 CSE, GECK), ANJANA PREVA R (54 CSE, GECK), SHANTHIK SUDA (54 CSE, LBSCEK), and CLAYD THAMES (54 CSE, LBSCEK). The word "Congratulations" is written in a gold, cursive font at the bottom. The bottom of the poster includes logos for IEEE Student Branch, Vimal Jyothi Engineering College, Government Engineering College, Wayanad, and College of Engineering, Adoor.</p>
21	INNOVATEX	<p>InNovateX, as part of TrailblazeX, focused on innovation and problem-solving. Participants were challenged to create a solution to address the issue of wild animal attacks in agriculture through innovative fencing techniques. The theme aimed to highlight the importance of finding practical solutions to protect agricultural fields from wildlife while promoting sustainable farming practices. The competition witnessed brilliant ideas and inventive concepts from the participants, reflecting their dedication to addressing real-world challenges.</p>	 <p>The poster for InnovateX features the IEEE logo at the top right. The title "INNOVATEX" is prominently displayed in a large, gold, serif font. Below the title, two circular portraits of winners are shown, each with their name and college affiliation: JACOB GEORGE (54 CSE, LBSCEK) and CHITHRA N M (56 ECE, GECK). The word "CONGRATULATIONS" is written in a gold, cursive font at the bottom. The bottom of the poster includes logos for IEEE Student Branch, Vimal Jyothi Engineering College, Government Engineering College, Wayanad, and College of Engineering, Adoor.</p>

22	CALLIGRAPHY COMPETITION	<p>As part of TrailblazeX, IEEE SB GECKKD conducted a Calligraphy competition. It provided an opportunity to showcase calligraphic skills of students. The competition witnessed exquisite calligraphy styles and impressive artworks. 10 students participated in the competition.</p> <p>Overall, TrailblazeX successfully brought together WiE members from multiple institutions and provided them with a platform to showcase their skills and innovative ideas. The winners of the competition were awarded a cash prize of ₹1000, recognizing their exceptional skills and efforts.</p>	 <p>A black-themed announcement poster for the Calligraphy Competition. It features the IEEE logo at the top right. The title 'CALLIGRAPHY COMPETITION' is in large, gold, serif font. Below the title, three student portraits are shown with their names and departments: Irene Pall (BG ECE, GEKU), G. Nishan (BG MECH, GEKCE), and Meesha Kishan (BG ECE, LUSTU). The word 'Congratulations' is written in a cursive font at the bottom. Logos for IEEE Student Branch and other institutions are at the bottom.</p>
23	INCEPTO	<p>IEEE SIGHT of GEC Kozhikode has conducted an idea pitching competition named "INCEPTO." The submission of ideas was on topics with a humanitarian purpose, such as agricultural technology, climate sustainability technology, information and communications technology (ICT), sustainable power technology, and water, sanitation, and hygiene (WaSH) technology. The winner of the event was Parvathy US of the ME department.</p>	 <p>A white-themed announcement poster for the INCEPTO competition. It features the IEEE logo at the top right. The title 'INCEPTO' is in large, bold, black font, with 'Congratulations' in a cursive font below it. Four student portraits are shown with their names and departments: Parvathy US (BA ME), Anshu Muhammed K (BA ME), Anshu R (BA ME), and Anshu P (BA ME). The poster includes the IEEE Student Branch logo and contact information for IEEE SB GECKKD.</p>
24	DEVINETTE	<p>IEEE SIGHT GEC KOZHIKODE organised "DEVINETTE," a riddle competition, as a part of the Sight Day Celebration based on technology and humanity. It included questions related to technology, software, and math puzzles, aimed at improving the technical knowledge of students. There were 15 questions. The event had 91 registrations and 43 participants. The event was coordinated by Safa Basheer, Gopika M. Nair, and Sreelakshmi M.</p>	 <p>A white-themed announcement poster for the DEVINETTE Riddle competition. It features the IEEE logo at the top right. The title 'DEVINETTE' is in large, bold, black font, with 'Riddle competition' in a smaller font below it. Three student portraits are shown with their names and departments: Muhammad Mubair (BA ECE), Ahsan Shamsi (BA ECE), and Fida Samra (BA ECE). The poster includes the IEEE Student Branch logo and contact information for IEEE SB GECKKD.</p>

25	PENORO	<p>IEEE SIGHT of GEC KOZHICODE has conducted a blog writing competition named "PENORO." Four students participated in this event. The event was conducted online in Google Forms with the submission of blog entries as pdfs or word documents on the topic "Animal Rescue" until May 6, 2023.</p> <p>The event was successful, with 2 IEEE participants and 2 non-IEEE participants. The winner of the event was Alwin A. S. of the CSD Department.</p>	
26	SNAPMANIA	<p>The online photography competition 'SNAPMANIA' was conducted by IEEE SIGHT of GEC Kozhikode on the theme "Environment" on May 7, 2023. The competition was open to all colleges and was a success, with 23 registrations. It aimed to encourage photographers to capture the beauty and importance of nature.</p> <p>The winner of the competition was Nanditha CP of the ECE Department, Geck.</p>	

4. ACTIVITIES OF IEDC, IIC& TBI

Innovation and Entrepreneurship Development Centre (IEDC) a flagship initiative of Kerala Startup Mission, Institution's Innovations Council (IIC) an establishment of Ministry of Education (MoE), Govt. of India and Technology Business Incubator (TBI) of GEC Kozhikode are jointly associated to systematically foster the culture of Innovation among students and academic fraternity of the institution and functioning in this institution jointly. At GEC Kozhikode, VIBE, an integration of three prominent collegiate clubs - IEDC, IIC, and TBI - stands at the forefront of this movement, spearheading forward-thinking initiatives and empowering students to translate ideas into impactful ventures. Established with the vision to instill an entrepreneurial mindset among students, VIBE serves as a launchpad for aspiring entrepreneurs. Through a myriad of workshops, seminars, and mentorship programs, VIBE equips students with the essential skills and knowledge required to navigate the entrepreneurial journey seamlessly.

VIBE takes pride in its successful organization of **ENDORA, a Techno Flea Fest** held on April 28 and 29, 2023, marking a significant milestone for the college. With a theme focused on developing projects for enhancing the lifestyle of specially-abled individuals, ENDORA garnered enthusiastic participation from across the campus. The event commenced with a series of pre-events engaging the entire college community, leading up to the grand finale on April 28. It featured diverse workshops on embedded automotive, Flutter app development, Revit, SketchUp, alongside sessions on leadership development and ethical hacking. Notably, collegial clubs such as ISTE and IEEE actively contributed to these workshops. Moreover, an influencers' meet and "Jeevena," a talent show for specially-abled individuals, organized in collaboration with NSS GECK, added a unique touch to the fest.

Moreover, to foster a culture of continuous learning and exploration, VIBE GECK facilitated an exclusive **visit to IIT Madras** on May 24 and 25, 2023. This visit provided members with the opportunity to engage in cutting-edge research, witness live demonstrations of groundbreaking projects, and network with tech enthusiasts, enriching their technological expertise and exposure.

As a testament to its collaborative spirit, the students of GEC Kozhikode co-supported in organizing the **Young Idea Conclave** at the National Institute of Technology Calicut (NITC) campus on August 19, 2023. The conclave served as a platform for students to pitch their innovative ideas, fostering knowledge exchange and offering valuable insights into new innovations and opportunities. With 21 students from GEC Kozhikode participating, the event exemplified VIBE GECK's commitment to nurturing creativity and innovation among students.

Govt. Engineering College Kozhikode participated in the **Nodal Officers Meet-up and IEDC Summit** organized by Kerala Startup Mission in association with College of Engineering, Trivandrum on 11 and 12 October 2023 for at College of Engineering Trivandrum (CET). 30 students participated in the event.

We also launched the **CODEWAVE** online workshop series, a pioneering initiative aimed at delving deep into the realms of machine learning, artificial intelligence, and Flutter app development. These meticulously crafted workshops, conducted from November 1 onwards, provided participants with immersive learning experiences, empowering them with the latest tools and techniques in the rapidly evolving tech landscape.

VIBE GECK had conducted an **Orientation session on Building Startups** by Mr. Akbar K K, CEO Bird Eye Technologies LLP on 5th December 2023 at Placement Hall. This session transcended conventional boundaries, offering invaluable insights into the intricacies of entrepreneurship, from conceptualization to execution. Participants were guided through the nuances of crafting compelling pitches and navigating the competitive startup ecosystem, fostering a culture of innovation and resilience.

An **Idea Pitching event** is conducted on 7th December 2023 for selecting new aspiring start-up companies for **affiliation with Technology Business Incubator**, Government Engineering College Kozhikode (TBIGECK). The selection is done a committee consisting of is the faculty members of Government Engineering College Kozhikode, a representative of a nationalised bank, and a representative of the District Industries Centre Kozhikode. One start-up led by Mr. Ashwanth M. K. named 'Inno-Core' aiming to provide AI-powered Arduino Board solutions was selected for affiliation with Technology Business Incubator, Government Engineering College Kozhikode (TBIGECK).

5. ACTIVITY OF CAREER GUIDANCE & PLACEMENT CELL

Activities of the Career Guidance and Placement Committee (CGPC) for the year 2023-24 was coordinated by Dr. Anoop C S., Asst. Professor in Applied Electronics and Instrumentation Engineering. The executive committee was as follows.

CGPC Committee						
Faculty Representatives						
Sl. No.	Faculty	Phone	Email	Branch	Alternate Email	
1	Mr. Anoop C S	9611127851	anoopcs@geckkd.ac.in	ECE	placement@geckkd.ac.in	
2	Prof. Babitha Nair	8848967490	babitha@geckkd.ac.in	AEI	babithabnair12@gmail.com	
3	Dr. Binu T V	9496889947	binutv@geckkd.ac.in	CHEM	tvbinu@gmail.com	
4	Dr. Kouzer K M	9744449580	kouzer@geckkd.ac.in	CIVIL	kouzer@gmail.com	
5	Prof. Arun Shal	7259404400	arun@geckkd.ac.in	MECH	arun@geckkd.ac.in	
Student Representatives						
Sl. No.	Name	Phone	Email	Department	Course	Branch/ Specialization
1	Jen Joseph James	7034787967	jenjosephjames09@gmail.com	AEI	B. Tech.	Electronics and Communication Engineering
2	Nasnin Hameed	9744503670	neenunannu786@gmail.com	AEI	B. Tech.	Electronics and Communication Engineering
3	Shahala Mumtaz N P	8891765688	shahalamumthaz01@gmail.com	AEI	B. Tech.	Applied Electronics and Instrumentation
4	Arundhathy P Shibu	7012675181	arundhathypshibu2002@gmail.com	AEI	B. Tech.	Applied Electronics and Instrumentation
5	Albin K E	6235359146	albinalbinke5@gmail.com	MECH	B. Tech.	Mechanical Engineering
6	Anjali	9446336255	anjaliwallil2002@gmail.com	MECH	B. Tech.	Mechanical Engineering
7	Joshin V J	7356508168	joshinveejay@gmail.com	CIVIL	B. Tech.	Civil Engineering

8	Vignesh P J	7907030322	vigneshvikku06@gmail.com	CIVIL	B. Tech.	Civil Engineering
9	Adithyan M K	8547275583	adithyan404@gmail.com	CHEM	B. Tech.	Chemical Engineering
10	Rafeena K K			CHEM	B. Tech.	Chemical Engineering
11	Megha T P	8921385767	meghamece202224@geckkd.ac.in	AEI	M. Tech	Signal Processing
12	Aiswarya K D	9961345345		CIVIL	M. Tech	Structural Engineering
13	RahulKrishnan UA	9400100398	krishnanrahul027@gmail.com	CHEM	M. Tech	Computer Aided Process Design
14	M R Mohamed Aksath Rahil	9633361979	aksathrahil1708@gmail.com	MECH	M. Tech	Energy System Analysis and Design

The CGPC coordinated the placement drives by various companies and also imparted training to students related to placement during 2023-24. (Details as follows).

1. Placement/GATE-eligibility statistics 2023-24 (as on 10 April 2024)

<i>Firm</i>	AE	CE	CH	EC	ME	Grand Total
Aarbee Structures		7				7
BARC OCES	1					1
Eduport	5			2	8	15
GATE		7		6	1	14
Intellipaat	2					2
L&T	2	3			6	11
Petronash Engineering Services Pvt Ltd	1					1
QBurst				2	1	3
Reliance Industries Ltd.					1	1
Schneider Electric			2			2
Tata Elxsi				2		2
Welspun Corp Ltd.					10	10
Yokogawa India limited			1			1
Grand Total	11	17	3	12	27	70

2. Training/Other Activities 2023-24

Date	Programme	Duration	No. of Beneficiaries	Expenditure/Funding details
10 Oct 2023	Introduction to KKEM and DWMS	1 day	2024 Pass out students	NIL
17,18 Nov 2023	Training for aptitude tests	2 days	2024 Pass out students	Rs. 43,200/- PTA Welfare Fund
09 Feb 2023	Orientation session for civil services examinations.	½ day	Interested S4/S6/S8 students	NIL
28 Feb 2023	Job Fair by KKEM	1 day	2024 Pass out students	NIL

6. ACTIVITIES OF COUNSELLING AND GUIDANCE CELL

Students face many mental stresses presently. Hence, a registered Mental Health Consultant was appointed with a 2-year full-time M.Phil. in Clinical Psychology or Psychiatric social work from a recognised university. She has several years of clinical practice experience in counselling. This is done to ensure engineering college student's mental well-being. A newspaper ad was floated, and the counsellor was appointed after interviewing many candidates. The counsellor who was enthusiastic, friendly, and had a positive attitude was selected.

The counsellor is Siya V K. She is skilled in various therapeutic approaches, including cognitive behavioural therapy, dialectical behaviour therapy, motivation enhancement therapy, psychoeducation, supportive psychotherapy, multiple relaxation techniques, sleep hygiene techniques, problem-solving strategies, attention enhancement therapy, behaviour therapy, activity scheduling, and counselling. She is also proficient in using various assessment tools to diagnose students' problems. She built a strong rapport with her students and gave them the tools they needed to overcome their challenges. The one-to-one counselling is going on four days a week in the dedicated counselling room on campus.

Annual report of the counselling cell

The counselling sessions for engineering students of Government Engineering College Kozhikode for this academic year are ongoing. The counsellor was introduced to each class of all the departments, so many students started approaching the Counselor for counselling services. Both B.Tech and M.Tech students from each department and from every batch are availing counselling sessions. The number of students consulting the Counselor for various mental health issues varies from day to day. Five to seven students are receiving counselling services and follow-up sessions each day.

A case history of the students will be taken in the first session, for which a structured case history format has been developed. The case history form includes sociodemographic details of the student, their expressed problems, medical diagnosis if any, history of the illness in present and past, their childhood history, provisional

diagnosis and treatment plan. Considering the problem expressed and its severity, structured assessment tools are used to diagnose the disorder. Conferring the assessment score and result, the therapeutic modality will be designed and provided based on the need.

Reportedly, students are facing various mental health issues. Due to this, there has been a significant decrease in the academic performance of engineering students. So that the counsellor is providing an open space for all the students to talk to the counsellor about their problems without any hesitation or barriers. The counsellor always follows the principle of non-judgemental attitude and the principle of confidentiality towards the students and their problems to ensure quality mental health services.

The problems expressed by the students are diverse, and for each student, the therapeutic approach and strategies vary. There are numerous students approaching the counsellor to deal with their academic matters, such as poor concentration, memory issues while studying, lack of interest in reading and learning new theories, issues in accomplishing tasks, inability to complete assignments and records on time, easily distracted during classes and though studying. There are other students who used to approach the counsellor once the Examination Results were published. The main reason is due to failure in exams and the increase in the number of added supplementary papers they have. There are students who avail themselves of counselling services just before the commencement of the examination due to their anxieties about the same. Some of the students face difficulties when they are asked to present seminars in front of the class in the presence of their teacher.

Mood disturbances are common among the students. Many students used to meet the counsellor to deal with their mood swings and mood-related issues. Some of the students are having mild to moderate levels of depression. Those students are dealt with continuous therapy sessions at least once a week.

Substance use among college students is critically increasing nowadays. The students who have a dependency and are severely addicted to the substances are usually not ready to disclose it to their families, relatives, and teachers. Relationship issues and interpersonal issues are reportedly high among college students. The positive side of the students in our college is that they easily build rapport with the counsellor, which

results in sharing their relationship and interpersonal issues with the counsellor without any reluctance.

Family issues are severely affecting the mental health of every student. The separation of parents, divorce of the parents, other marital issues among parents, single parenting, authoritarian parenting, and financial struggles of the family are making the students uncomfortable and impairing their overall mental well-being. The parents are also contacted by the counsellor and called upon for counselling sessions if needed. Due to work pressure, some faculty and office staff have also attended counselling sessions.

Other reported significant issues of students are porn addiction, mobile addiction, issues with studying which leads them to think about the discontinuation of the course, increased anger outbursts, poor decision making, inability to communicate effectively, issues in problem-solving, sleep disturbances, gambling, etc.

The students are provided with different therapies and approaches. They are therapeutic approaches, including cognitive behavioural therapy, dialectical behaviour therapy, motivation enhancement therapy, psychoeducation, supportive psychotherapy, multiple relaxation techniques, sleep hygiene techniques, problem-solving strategies, attention enhancement therapy, behaviour therapy, activity scheduling, and counselling.

Several assessment tools are used to diagnose the problems of the students. They are BAI, BDI, Personality Assessment, Social anxiety scale, OCD scale, CDS, and SDQ. The students are asked to attend follow-up sessions to ensure mental well-being and to note their improvement. Dr Ansu V is the convener of the counselling cell.

7. ACTIVITIES OF ISTE STUDENT CHAPTER

ISTE inspires educators worldwide to use technology to innovate teaching and learning, accelerate good practice and solve tough problems in education by providing community, knowledge, and the ISTE standards, a framework for rethinking education and empowering learners.

ISTE's vision is that all educators are empowered to harness technology to accelerate innovation in teaching and learning and inspire learners to reach their greatest potential.

2015 marked the beginning of ISTE's journey with GECK. This chapter was established by a group of about ten students who wanted to alter the monotonous college experience. In 2017, the ISTE GECK Student Chapter was resurrected at our campus, albeit with a relatively small membership. With the number of members as of right now being more than 1000. It is among the GEC Kozhikode's largest technical cells. The students' intellectual and personal growth is the primary emphasis of this student chapter. The newly elected Executive Committee, which was established in 2022, envisioned a number of activities to help attendees develop and appreciate their critical and creative thinking. Here are a few noteworthy occurrences:

The first significant event that the newly formed Executive Committee planned was INSIGNIS'22, a Techno-Cultural mini-festival with a number of thrilling activities and games aimed at getting students involved. This five-day mini festival began with a few pre-events. A webinar on "Basic Ethical Hacking" was led by Mr. Sarath G, Cyber Forensic Consultant (Technovalley), and an offline session on FUSION 360 was led by Albin K E, a third-year mechanical engineering student at GEC Kozhikode. As the name suggests, INSIGNIS'22 featured a number of technical and cultural events, games, and tech talks. This small fest included competitions such as treasure hunt, coding challenges, web designing, chess tournament, e-football tournament, etc.

ISTE laid out a three-day event fest called TRIANZA, which took place from 9th to 12th of May 2023, to relieve tension after a hectic week. It had a number of games and competitions, such as Fastest Googler, Circuit Debugging Competition, Arduino Coding Competition, Circuit Breaker Competition, Doodle Art Competition, Digital Art Competition, and PPT Making Competition.

The information we get in the classroom is never sufficient to deal with life outside of its four walls. One such platform is ISTE, which offers students a range of options to support and assist them in navigating the present environment. It was never the intention of breaks to prevent learning. One entertaining activity is table discussions, in which the mentor—a student—discusses and explains a subject to the group. This would be an excellent learning opportunity for both of them as it is an offline interactive session with a familiar face. Several Table Talks covered topics including 3D printing, the Internet of Things, Fusion 360, etc.

The Student Chapter of ISTE GEC was delighted to host the second edition of one of its kind 'three days three nights' Techno Management Pre Placement Camp, AAKRITHI'23, at our college on 23rd, 24th and 25th of June 2023 with 95 delegates. The camp focused on the development of leadership skills, management skills, software skills and professional communication, reduction of performance anxiety and many other qualities needed to prepare for an interview. The camp included various events such as group discussion, debate, Product Concept Design and Marketing, familiarisation with AI tools, Case study etc., as well as activities to improve the creative side such as Balloon Chair Game and picture perception game and paper tower making.

The overall aim of the camp was to provide students with the necessary structural exposure to the professional world and self-assessment and self-improvement. The highlight of the camp was the aptitude test and training sessions, mock interview, and the session on English proficiency. The session with the renowned mentalist Jishnu stood out as the highlight of the camp. The camp Attendees and Delegates acknowledged the initiative and intent of the Camp Officials in organising the AAKRITHI'23.

Apart from all these general activities, ISTE also focuses on department wise events called Forum Events. Forum War is the healthy competition happening between all the forums. Leaderboards for these forum events are noted and winners of the Forum War shall be published at the end of the term. Some notable events from forums were TAURUS of AE&I, Allegorize of CHE, Civilia 1.0 of CE, Tessellate of ME, Code - e - Flux of CSD.

In the 21st Annual State Convention, NUEVA'23 conducted at Government Engineering College Thrissur; ISTE GEC Kozhikode Student Chapter bagged some prestigious awards including:

- Best Student Chapter
- Best Student Award - Amritha D, Electronics and Communication, 2019 - 2023
- 2nd Runner up in IDEATHON, NUEVA'23 - Binoy Ezack, Karthik C K, Prithviraj T V, Salvin M Varghese
- Campus Ambassador Winner - AryaKrishna V R

The members of our Executive Committee for the year 2023 - 2024 are:

FACULTY ADVISOR - PROF. DILEEP KUMAR P G

CHAIRPERSON - ANGEL MARIA SABU

VICE CHAIRPERSON - KARTHIK C K

SECRETARY - BINOY EZACK

TREASURER - DANISH HUSSAIN

JOINT SECRETARIES - ANSHA ABOOBACKER & SALVIN M VARGHESE

PUBLIC RELATIONS HEAD - JETTYLINE MARY JACOB

EVENT MANAGER - ARYAKRISHNA V R

TECHNICAL HEAD - PRITHVIRAJ T V

DOCUMENTATION HEAD - PARVATHI S R

DESIGN HEAD - VAISHNAV RAJ

MEDIA HEAD - INDUCHOODAN M

FORUM HEAD AE&I - AMANA T

FORUM HEAD CE - MOHAMMED JASIM K

FORUM HEAD CHE - FAZAL UL RAHMAN

FORUM HEAD EC - SHAMIL AHAMMED

FORUM HEAD ME - MUHAMMED SHEHIN





8. ACTIVITIES OF THE NATIONAL SERVICE SCHEME (NSS)

Unit Level Annual Report for the Year 2023- 24

- Name of the College : Government Engineering College, Kozhikode
- Unit Number : 162 & 258
- Name of Programme Officer : Dhaneesh K P , Christeena Neetu Priya Alex
- Mobile Number : 9496470811, 7560900104
- Email ID : dhaneeshkp@geckkd.ac.in , christena@geckkd.ac.in

Performance/Achievements

No.	Parameter	2023-24
1.	Plantation	
	a) No. of plantation programs organized	1
	b) No. of saplings planted in these programs	100
2.	Blood Donation	
	a) No. of blood donation camps organized	1
	b) Blood donated in the camp (No. of units)	69
3.	Hair donation camp	1
	No. of hair donated in the camp	6
4	c) Other Awareness programmes (Please indicate the names of the awareness programmes and the number of programmes organized)	
	a) Cancer awareness programme	1
	b) Nippa virus awareness programme	1
	c) Blood donation awareness programme	1
	d) Sign language awareness programme	1
	e) Polio day awareness programme	1
	f) Women's day awareness programme	1
	g) Voter's day awareness programme	1

h) Fire and safety awareness programme	1
i) Anti-drug awareness programme	1
j) Road safety awareness programme	1
k) Aids day awareness programme	1
l) Self-defense awareness programme for girls	1
m) Cyber security awareness programme	1
n) Finance Management Awareness programme	1

Details of special camp conducted (2023-24)

Date: 17/02/2024 - 22/02/2024

Venue: Savithri Devi Sabu Memorial College, Peruvayal, Kozhikode

Project: Awareness Flash Mob, Renovation of Govt Veterinary hospital, Peruvayal, Riverside cleaning and fencing, Canal Cleaning, Primary health center cleaning

Achievement: The NSS 7-day special camp of Govt Engineering College Kozhikode was organized from February 17 to February 23, 2024, at the old Savithri Devi Sabu Memorial College, Peruvayal, Kozhikode. The theme of the camp was 'Waste Management'. Owing to this theme, the works included the renovation of Govt. Veterinary Hospital, Peruvayal, the cleaning of a nearby canal, and the cleaning of the Primary Health Center. A nearby river bank was cleaned and fenced as per the request of the panchayath. A survey was also conducted to find out the sources of wastewater in the river

Details of Regular Activities (2023-24)

Date	Programme	Duration (hours)	Beneficiaries (Nos.)
14-04-23	Chayam	2	50
15-05-23	Live in the moment	2	40
15-05-23	Tech Series Day 1	2	60
16-05-23	Tech Series Day 2	2	85
18-05-23	Tech Series Day 3	2	71

29-05-23	Samarpana Day 1	6	70
30-05-23	Samarpana Day 2	6	75
02-06-23	Shappad	3	30
03-06-23	Udyanam Day 1	4	60
05-06-23	Bhoomika	3	50
9-06-23	Shappad	2	20
10-06-23	Padheyam	6	60
10-06-23	Urja	2	50
12-06-23	Baalyam	3	30
16-06-23	World Blood Donor Day	2	40
17-06-23	Udyanam Day 2	4	65
19-06-23	Reading Competition	2	40
19-06-23	Farewell	2	100
23-06-23	Shappad	2	35
25-06-23	Musical Competition	2	40
11-07-23	Posterolic	2	50
20-07-23	Shah Mat	3	40
29-07-23	Hennaara	3	30
30-07-23	GECK SPEAKS	2	10
14-08-23	Udyanam Day 3	4	60
15-08-23	Patriotic Quiz Competition	2	40
15-08-23	PRE-RD and NIC Experience Sharing	2	80
16-08-23	Poster Making Competition	2	50
23-08-23	Chandrayaan 3 landing:live telecasting	2	65
01-09-23	Onnayi Munnot- An Interacting Session	3	70
01-09-23	NSS General Orientation	3	75
02-09-23	Punarjani At Udayam Homes	6	25

08-09-23	Shappad	2	35
15-08-23	Tongue Twister Competition	2	40
20-09-23	Talk session on Engineering Experiences and Research Field	2	90
29-09-23	Shappad	2	40
07-10-23	Shappad	2	35
07-10-23	North Malabar Region VS Meet	6	20
08-11-23	North Malabar Region VS Meet	3	20
13-10-23	Shappad	2	35
20-10-23	Shappad	2	30
02-11-23	Rudhirasena Orientation	3	90
03-11-23	Shappad	2	40
09-11-23	Road Safety Club Inauguration	3	90
10-11-23	Shappad	2	40
14-11-23	Podcast	3	20
15-11-23	NRPF Orientation	3	80
15-11-23	Cancer Awareness Webinar	2	90
16-11-23	Drawing Competition for Kids	3	40
16-11-23	Debate Competition	3	60
17-11-23	Shappad	2	35
17-11-23	Blindfolded Conversation	2	100
20-11-23	Sign Language Training Programme	3	90
22-11-23	Pushup and Arm-Wrestling Challenge	2	80
23-11-23	Blood Donation Camp	3	120
25-11-23	Public Thought on Cloth	2	70
26-11-23	Quiz Competition	2	60
28-11-23	Navakerala Sadas Volunteering	6	20
27-11-23	Jwala- A Self Defense Training Programme	2	80

30-10-23	Magic Show	3	100
01-12-23	Shappad	2	30
09-12-23	Padheyam	6	60
12-12-23	Math Puzzle Competition	2	70
23-12-23	Sudoku Competition	2	80
30-12-23	Maths Quiz	2	90
30-12-23	Frozen Frames	2	75
31-12-23	2023 Memories	2	90
31-01-24	New Year Companion	2	80
06-02-24	Swapnachithra Art Exhibition Day 1	6	20
07-02-24	Swapnachithra Art Exhibition Day 2	6	20
08-02-24	Swapnachithra Art Exhibition Day 3	6	20
09-02-24	Swapnachithra Art Exhibition Day 4	6	20
10-02-24	Swapnachithra Art Exhibition Day 5	6	20
11-02-24	Swapnachithra Art Exhibition Day 6	6	20
09-02-24	Shappad	2	50
14-02-24	Valentines Week	2	60
14-02-24	Pulwama Day	2	80
17-02-24	NSS 7 Day Special Camp Day 1	6	100
18-02-24	NSS 7 Day Special Camp Day 2	6	100
19-02-24	NSS 7 Day Special Camp Day 3	6	100
20-02-24	NSS 7 Day Special Camp Day 4	6	100
21-02-24	NSS 7 Day Special Camp Day 5	6	100
22-02-24	NSS 7 Day Special Camp Day 6	6	100
23-02-24	NSS 7 Day Special Camp Day 7	6	100
15-03-24	Shappad	2	30
22-03-24	Shappad	2	50

University Level Events conducted

1. Volunteer Secretary Meet (North Malabar Regional)

The North Malabar Region VS Meet was conducted by NSS Units 162 and 258 at Government Engineering College, Kozhikode. Various sessions were provided to the volunteer secretaries, including general orientation, flagship sessions, Ice breaking sessions, and interactive sessions on narcotics and fire and safety. Almost 60 volunteer secretaries attended the meeting.

Details of Volunteers Participated in National Integration Camps

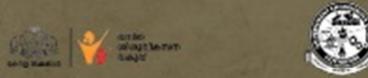
Name	Gender	Enrollment no	Venue
Anjima T	Female	KKE21EC012	Janapada Loka, Ramanagara, Karnataka

9. Activity Report Scheme for HerEmpowerment (SHE)

Convener , SHE :Dr. Gigi Sebastian, Professor in Chemical Engg

The details of the program conducted under SHE is given in this report. An awareness program (Kanal Fest 2023) in collaboration with Ministry of Women and Child development and Women Cell GEC Kozhikode has been conducted on 15th November 2023.

The brochure of the Kanal fest is attached. Around 200 students attended the program. The self defence program conducted by the Kerala police was so informative and well appreciated by the students. They have explained some tips for the self-protection of girls. The gender awareness program by Anitha V, Gender faculty KSM & Kila focused mainly on the importance of gender equality in society. They detailed about the change in attitude to have a good healthy society giving equal importance to all genders They interacted very well with students and made it a very fruitful session. Skit and debate were conducted by the students.

SHE 

Ministry of Women and Child Development
in association with Women Cell & She Geckkd
is organising an

AWARENESS SESSION

KANAL FEST 2023

**NOVEMBER 15
WEDNESDAY**

01:30PM - 04:30 PM

Venue: Mechanical Department,
Seminar Hall

Government Engineering College Kozhikode

PROGRAM SCHEDULE

PRAYER

WELCOME SPEECH:
DR GIGI SEBASTIAN (CONVENER, SHE)

PRESIDENTIAL ADDRESS:
DR P C RAGHURAJ (PRINCIPAL, GECKKD)

INAUGURATION:
MRS. SABEENA BEEGUM S (DISTRICT WOMEN AND
CHILD DEVELOPMENT OFFICER, KOZHICODE)

FELICITATION:
DR AGNES JACOB (HOD, AEI)

SESSION 1:
SELF DEFENCE TRAINING CLASS,
KERALA POLICE

SESSION 2:
GENDER AWARENESS PROGRAM
ANITHA N V (GENDER FACULTY, KSM & KILA)

SESSION 3:
SKIT (COLLEGE STUDENTS)

SESSION 4:
DEBATE ON BENEVOLENT SEXISM

VOTE OF THANKS:
DR JASSEELA S (CONVENER, WOMEN CELL)



10 ACTIVITYREPORT ON THE ANTI-NARCOTIC CELL

Government Engineering College Kozhikode Combats Narcotics with Multi-Pronged Approach

Government Engineering College Kozhikode (GECK) is taking a firm stance against narcotics on campus through a comprehensive program that educates, supports, and collaborates.

Awareness Drives the Initiative:

- GECK conducts regular anti-narcotic awareness programs, equipping students with knowledge about the dangers of drug abuse.
- The college leverages social media to share informative messages, keeping students, parents, and faculty updated.

Collaboration Strengthens Efforts:

- GECK actively participates in meetings organized by the Kerala Police, fostering a collaborative effort to curb the use of narcotics.

Support Systems Provided:

- A registered mental health consultant with extensive experience offers counseling services and classes to students, providing crucial support and guidance.
- Regular classes conducted by Sri Biju of the Nallalam Police Anti-Narcotics Cell supplement the college's initiatives with expert insights.

Building a Drug-Free Future:

These combined efforts demonstrate GECK's unwavering commitment to creating a safe and healthy learning environment. By raising awareness, providing support systems, and collaborating with authorities, GECK is working diligently towards a drug-free campus for its students. Dr Ansu V is the convener of the cell.

Regular classes are organised by Sri Biju Perambra, Anti narcotic cell of the Kerala police

As per recent newspaper reports, drug abuse cases are rising among Kerala's school and college students. Hence, an Anti-Narcotic cell is formed in our institute. Counselling is arranged for students who are facing drug addiction-related problems. The Narcotic Cell of Kerala police, Kozhikode, was requested to take awareness programs at our institution to safeguard our students against drug usage. As per our request, they are conducting regular sessions for the students. Sri Biju of Narcotic Cell has taken classes with other police officers for first-year students. The classes by Sri Biju were excellent. Sri Biju took also a class on the induction programme on 13 September 2023, from 3:00 PM to 4:30 PM. The photos of the sessions are given below.



Anti narcotic awareness by the Counsellor in all the classes

Substance use among college students is critically increasing nowadays. The students who have a dependency and are severely addicted to the substances are usually not ready to disclose it to their families, relatives, and teachers. Students also face many mental stresses presently infused by substance abuse. Hence, a registered Mental Health Consultant was appointed with a 2-year full-time M.Phil. in Clinical Psychology or Psychiatric social work from a recognised university. She has several years of clinical practice experience in counselling. This is done to ensure engineering college student's mental well-being. A newspaper ad was floated, and the counsellor was appointed after interviewing many candidates. The counsellor who was enthusiastic, friendly, and had a positive attitude was selected. The counsellor is Siya V K, who is skilled in various therapeutic approaches, including cognitive behavioural therapy, dialectical behaviour therapy, motivation enhancement therapy, psychoeducation, supportive psychotherapy, multiple relaxation techniques, sleep hygiene techniques, problem-solving strategies, attention enhancement therapy, behaviour therapy, activity scheduling, and counselling. She is also proficient in using various assessment tools to diagnose students' problems. She built a strong rapport with her students and gave them the tools they needed to overcome their challenges. The one-to-one

counselling is going on four days a week in the dedicated counselling room on campus.



Talk on Anti-Narcotics by E Jayarajan, Kerala police on 13 September 2023 at the induction programme

A talk on Anti-Narcotics was arranged by E Jayarajan, Kerala police, Vythiri police station, Wayanad, and was conducted on 13 September 2023 from 9.30 am to 11 am at the induction program for all the students of first-year. He discussed the dangers of using narcotics and how to prevent them. The students liked this talk very much, as per the feedback.



Anti-narcotics class on 13 sept 2023 by Dr. Jayaprakashan K P, Associate Professor of Psychiatry, Govt. Medical College, Thiruvananthapuram on 13 September 2023 11 am.

Sri M B Rajesh, Hon'ble Minister for Local Self Governments, Rural Development, and Excise, Kerala Government, inaugurated the Anti-narcotics class. Dr. Jayaprakashan K P, Associate Professor of Psychiatry at Govt. Medical College, Thiruvananthapuram, conducted the online session for first-year students as part of the induction program. The session proved highly informative, effectively raising awareness among students about the dangers of drug use.

11. ACTIVITIES OF CoRAL UNIT

Polyester synthesis with functionalized nanomaterials and optimization During the year 2023-24, CoRAL in GEC Kozhikode collaborated with start ups and small industries to provide meaningful contributions towards their technology upgradation. The activities are listed below.

Polyester synthesis with functionalized nanomaterials and optimization

Collaborator: Chemraw Tech. Pvt. Ltd.

Supervisor: Dr. Ushakumary E R, Dept. of Chemical Engineering.

Polyesters are a category of polymers that contain the ester functional group in every repeat unit of their main chain. Polyesters are made by reacting a dicarboxylic acid with a diol. The most commonly used dicarboxylic acids are terephthalic acid and isophthalic acid along with diols like ethylene glycol and 1,4-butanediol. The reaction between a dicarboxylic acid and a diol is called condensation reaction.

This project deals with the manufacture of unsaturated polymer resin, a thermosetting polymer produced by condensation between anhydrides (Maleic anhydride, Phthalic anhydride) and glycol (Propylene Glycol).

The synthesized Polyester is then optimized by the introduction of nano Calcium Carbonate functionalized with silane in order to enhance its native properties. It is varied in proportions and the characteristic changes in the adhesive strength are noted and studied. Various tests like FTIR, TGA, SEM, XRD along with its rheological analysis, adhesive strength, UTM are done and the difference between two samples are compared and analysed. It is summarized that the addition of nano CaCO_3 increases the weather resistance, impact resistance, toughness and performance of the material under extreme conditions. Thus, a Polyester of better quality, durability and scope of application is produced.

Extraction and characterization of polysaccharides from different plant species and preparation of bioplastic

Collaborator: Chemraw Tech. Pvt. Ltd.

Supervisor: Dr. Manju M S, Profssor, Dept. Of Chemical Engineering.

Plant polysaccharides are the by-products of photosynthesis within the plants and are being extracted from different parts of the plants, such as leaves, pods, fruits, seeds, cereals, stems, roots, rhizomes, corms, exudates, etc. The important advantages for the uses of plant polysaccharides for preparation of bioplastics include easy availability from the nature as plant resources are abundant, sustainable and low cost production, biodegradability, biocompatibility, water solubility, swelling ability, etc.

In this project, we aim to extract polysaccharides from different plants like algae, aloe vera etc, followed by preparation and characterization of bioplastics using the extract.

During extraction, around 7 g of polysaccharides was obtained from 150 ml aloe vera juice. FTIR characterization of the extract was done. Optimization of the amount of various additives for bioplastic preparation is being carried out.

Modification of Epoxy adhesives using Nano fillers

Collaborator: Chemraw Tech. Pvt. Ltd.

Supervisor: Dr. Manju M S, Dept. of Chemical Engineering

Epoxy adhesive is used for joining surfaces together with strong bonds. Tolerate extreme stress and weather conditions. Resin and hardener(catalyst) undergo curing to give epoxy residue. Properties: Heat and chemical resistance, excellent adhesion, high stability and strength. Reinforcement of epoxy adhesive properties can be done by adding nano particles of CaCO_3 or silica. Nano particles show drastic change in properties as compared to regular sized particles. Nano particles of CaCO_3 exhibit properties like high stability, fast drying, improved covering power, reduced external impacts etc. All these properties may ultimately enforce the properties of epoxy adhesive. So varying composition of epoxy is combined with CaCO_3 nano particles and their properties are analyzed.

Results :

Epoxy with CaCO_3 nanoparticles as filler shows superior tensile strength and thermal stability compared to epoxy with commercially available filler.

Nanographene for surface coating applications

Collaborator: Chemraw Tech. Pvt. Ltd.

Supervisor: Dr. Ushakumary E R, Dept. of Chemical Engineering.

In order to improve the functionality and performance of surface coatings, this study investigates the incorporation of nanographene into surface coatings. An important first step toward the synthesis of nanographene was the successful synthesis of graphene oxide using the modified Hummer's technique. The next steps will concentrate on reducing graphene oxide to nanographene, which will enable its characteristics to be customized for certain coating uses. The goals of the work include maximizing the incorporation of nanographene into siloxane matrices to produce coatings that exhibit exceptional mechanical strength and super hydrophobicity. The objective of the project is to assess how coating characteristics are affected by the introduction of nanographene and how broadly applicable these qualities are.

Results: The reduction of

graphene oxide to nanographene opens avenues for tailoring the material's properties, such as enhancing its mechanical strength, electrical conductivity, and surface functionalities. This advancement positions us to explore the integration of nanographene into siloxane matrices, aiming to develop coatings with enhanced performance and tailored functionalities.

Fabrication of Answering Robot

Collaborator: CodeRobo

Supervisor: Dr. Sudheesh R S, Professor in Mech. Engg.

The Robot is an interactive one that can take voice inputs and give responses in real time. It is capable of animating its face while speaking. The structure of the robot has mainly three parts which consists of a head, body and a base. The head is fiber cast in spherical shape.

The body was fabricated by fibrecasting using a suitable mould.

The base that supports the structure and the internal hardware is a spherical plywood board. It consists of support wheels that takes in the load of the structure and the hardware, it also consist of motor that drives the robot.

The internal hardware basically consists of three parts. The face animation circuit that uses and LED matrix and an arduino to show the eyes of the robot and another circuit that uses a mic that lights up the mouth animation when the robot speaks the eye animation changes pattern when it is asked a question.

On the base of this circuit if the Amazon Alexa that gives responses in real time the condenser mic is fixed on to this Alexa as well as the LDR that causes the change in LED pattern when the Robot is asked a question.

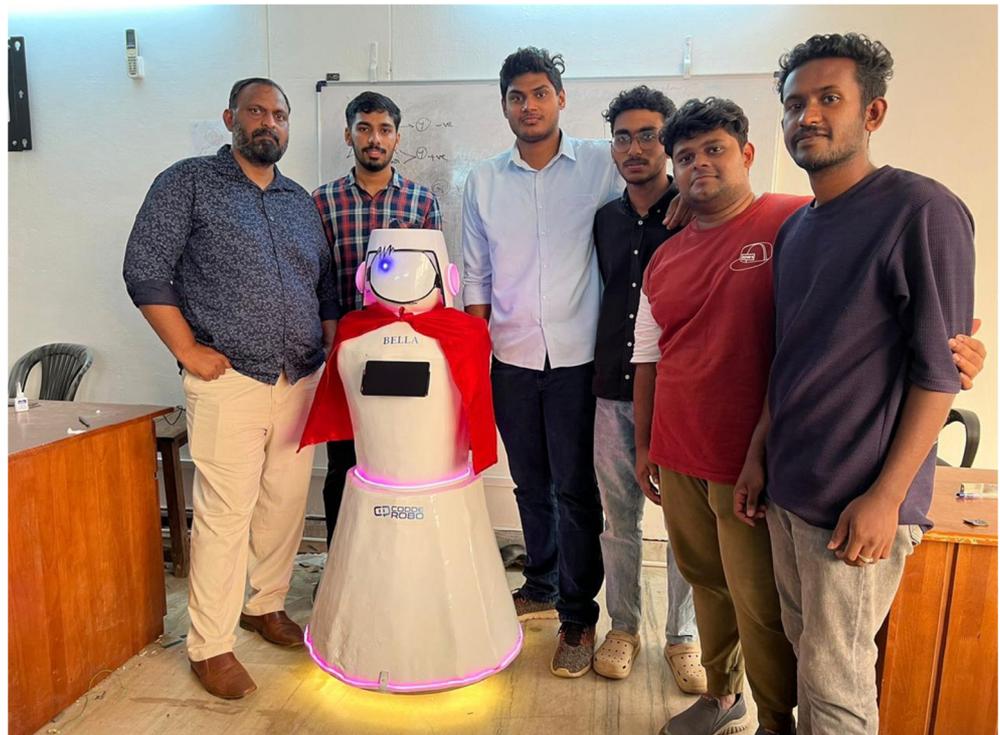


Fig. 1: The talking robot and the student group

Preparation of syllabus on robotics training for Schools

Collaborator: Coderobo

Supervisor: Dr. Sudheesh R S, Professor in Mech. Engg.,

A draft syllabus was prepared to introduce concepts of robotics for school students.

Design and development of gravity based conveyor for transporting latex

Collaborator: Lohashilpi rubber processing center

Supervisor: Prof. Fouad Ebn Mohammed Abdulla, Dept. of Mech.Engg.

A gravity-based ropeway system introduces a cost effective approach to latex transport, providing

an efficient and eco-friendly solution. This innovative technology harnesses gravity's power to seamlessly transport latex from high-altitude plantations to processing facilities, offering a sustainable alternative that minimizes energy consumption and environmental impact.

The project consists of assessment of the proposed site, considering design constraints, geographical conditions, operational feasibility, economic viability, and technical feasibility. Subsequently, the mechanical components of the ropeway system are designed, taking into account factors such as the curve shape of the loaded rope, forces acting upon it, weight distribution, wind load, friction on supports, braking friction. Assumptions regarding wind speed, temperature fluctuations, etc., are made based on established standards and references.

The wire rope is selected from IS tables and subjected to theoretical calculations to ensure a suitable factor of safety under various conditions. Appropriate braking methods are devised to ensure safe load landing, and bucket materials are selected based on load characteristics. Foundation design ensures adequate strength to carry maximum loads and withstand potential failures. Cost estimates for each component consider current quotation rates, prevailing market prices, and approved district rates.

In summary, this project presents a comprehensive approach to implementing a gravity-based ropeway system for latex transport, addressing various technical, operational, and economic considerations to ensure its successful deployment.

12. ACTIVITIES OF CCE

This report summarizes the activities conducted by the Center for Continuing Education (CCE) during the Financial Year 2023-24. Dr. Anjana Santhakumar, Professor, Dept. of Civil Engineering was the Manager of the Center. The Center is affiliated to CCE Kerala, Trivandrum, and its day to day affairs are monitored by the CCE Management Committee. During the report period, the committee held Ten (10) meetings. The activities can be divided into three major types: (1) Material Testing (2) Consultancy and (3) Conduct of short term courses. The revenue generated through the CCE activities are kept in a separate bank account. The Government share of this fund is remitted to the Treasury periodically. The institutional share is distributed to the consulting officers, staff and the balance is utilized for developmental activities of the institution. The main activities are listed below:

(a) General:

1. The accounts of CCE for the year 2022-23 & 2023-24 was audited by M/s. RSM Associates Chartered Accountants, Cochin
2. All transaction related to CCE are digitalized.
3. Obtained a patent for a B Tech student project.
4. Conducted one day training programme for staff for familiarising purchase procedure.
5. Conducted one day MPLAAD Training for employees in various department.
6. Three days training programme was conducted by Mechanical Department to familiarize the use of CNC Milling machine.
7. Three days internship programme conducted by Chemical Engineering Department on Sophisticated Instruments.
8. Participation by the Chemical Engineering Department in inauguration of Indian Institute of Chemical Engineers Kozhikode Regional Centre at NIT Calicut.
9. Participation by the Mechanical Department at the technical meeting conducted by State Institute of Hospitality Management at Kozhikode.
10. Organized an Industrial visit to KSEB Substation at Nallalam, Kozhikode by the Mechanical Engineering students.
11. Financial support given to M Tech project of the students of Civil Engineering Department.
12. Conducted Two day workshop on Single Cylinder CRDI Engine Test set up at Energy system by Mechanical Engineering Department.
13. Conducted FDP on Soft Skills for Technical Teachers by Chemical Engineering Department.

CCE Fund utilization details for the year 2023-24 are given below:

Sl. No.	Name of Department	Amount Spent
1	Civil Engineering	69,314
2	Applied Electronics& Instrumentation	23,675
3	Mechanical Engineering	1,26,646
4	Chemical	80,193
5	Computer Science	12,500
6	Institution	29,493
	TOTAL	3,41,821

Details of Consultancy Work from 01.4.23 to 31.03.24 are given below:

SL NO	NAME OF FIRM/INSTITUTIONAL CUSTOMER	NAME OF WORK	NAME OF FCAULTY CONSULTANT
1	Exe. Engineer, Project Division, KWA, Kozhikode	Scrutiny of Structural Drawing	Dr. Raghu Kumar C
2	Secretary, Maniyur GP, Vatakara	Structural Design and Soil Test	Dileep Kumar P G
3	Exe. Engineer, LSGD, District Panchayath, Civil Station	Design	Dileep Kumar P G
4	Secretary, Ramanattukaramunicipality	Soil investigation	Dileep Kumar P G
5	Adharv Constructions, Emerald Building, Vallikkunnu, Malappuram	Mix Design, WMM, GSB	Dr. Ansu V
6	Manager, SNMALP School, Areekode, Malappuram	Stability Certificate	Dr. Raghu Kumar C
7	Secretary, Ramanattukaramunicipality	Structural Design and Soil Test	Dileep Kumar P G
8	Exe. Engineer, LID & EW Division, Malappuram	Structural Design	Dileep Kumar P G
9	Asst. Exe. Engineer, Kerala Public Works Department	Structural Design	Dileep Kumar P G
10	Kerala Industrial Infrastructure Development Corporation	Valuation	Dr. Ansu V
11	Infrastructure Development Corporation, Karnataka	Vetting of Structural Design	Dr. Raghu Kumar C
12	Infrastructure Development Corporation, Karnataka	Vetting of Structural Design	Dr. Raghu Kumar C
13	Infrastructure Development Corporation, Karnataka	Vetting of Structural Design	Dr. Raghu Kumar C
14	Infrastructure Development Corporation, Karnataka	Vetting of Structural Design	Dr. Raghu Kumar C

15	Infrastructure Development Corporation, Karnataka	Vetting of Structural Design	Dr. Raghu Kumar C
16	Exe. Engineer, KWA, Kozhikode	Vetting Design	Dr. Raghu Kumar C
17	ULCC, Vatakara	Vetting Design	Dileep Kumar P G
18	The Principal, Olive Public School, Perambra	Stability Certificate	Dr. Raghu Kumar C
19	M/s.LCGCEnvironment Engineering LLP, Ernakulam	Srutiny& Vetting	Dr. Raghu Kumar C
20	Indus Health Care Solutions, Kozhikode	Structural Design	Dr. Raghu Kumar C
21	Superintending Engineer, Kozhikode Corporation	Structural Design	Dileep Kumar P G
22	Asst. Exe. Engineer, Kozhikode	Vetting Desingn	Dr. Raghu Kumar C
23	The Secretary, Thuneri Grama Panchayath	Stability Certificate	Dr. Raghu Kumar C
24	Heather Constructions, 1775, Pattanikunnu Lane, Sasthamangalam, Thiruvanthapuram, Kerala 695010	MIX DESIGN	Dr.Ragesh P P
25	Heather Constructions, 1775, Pattanikunnu Lane, Sasthamangalam, Thiruvanthapuram, Kerala 695010	MIX DESIGN	Dr.Ragesh P P
26	Executive Engineer, LSGD Division District Panchayat L627/34, Kozhikode Jilla Panchayath Building, Kozhikode Civil Station Road, Kozhikode, Kozhikode, Kerala, 673020	Soil & Scrutiny	Dileep Kumar P G
27	AZFARUDDIN, Hindustan Infrastructure co, B-5/25, Yamunavihar, New Delhi, North East Delhi, Delhi, 110053	MIX DESIGN	Dr.Ragesh P P
28	Manage Keezhariyoor MLP School Koyilandi	stability certificate	Dr.Ragesh P P
29	K Muhammed, Pwd Contractor, Karuvarakundu Lic No: Ee(M)21	structural design	Dileep Kumar P G
30	Grace Public School Wandoor, Thiruvalli Panchayathu, Malappuram	structural design	Dileep Kumar P G
31	Aup School Eriyad, Thiruvalli Panchayath, Malappuram	Structural Scrutiny	Dileep Kumar P G
32	Sri. ABDUL MAJEED C H, MANAGER PMSAALP SCHOOL CHATTI PARAMBA, MALAPPURAM	stability certificate	Dileep Kumar P G
33	Manager L P School, Thuvakkode, Chemancheri 673304	structural design	Dileep Kumar P G

34	M/S Shubham Hydrotech Engineers Private Limited Municipality Ward No. Xxl, Kothamangalam, Ernakulam, Kerala, 686691	MIX DESIGN	RAGESH PP
35	M/S Shubham Hydrotech Engineers Private Limited Municipality Ward No. Xxl, Kothamangalam, Ernakulam, Kerala, 686691	MIX DESIGN	RAGESH PP
36	M/S Shubham Hydrotech Engineers Private Limited Municipality Ward No. Xxl, Kothamangalam, Ernakulam, Kerala, 686691	Ready MIX	RAGESH PP
37	Manager, Karuvancheri U P School, Maniyur Grama Panchayath, Palayadunada P.O, 673 521 - Pin	stability certificate Amount credited to CCE Account on 19.06.23	RAGESH PP
38	Executive Engineer Cpwd, Cpwd Kendriya Bhavan, 2nd Floor, M S Baburaj, Kallai, Kozhikode, Kerala, 673003	Sub Soil Test 135700-135700*2/100 (2714)=132986 Amount credited to CCE Account on 30.06.23	Dileep Kumar P G
39	Manager, Little Flower English Medium Higher Secondary School, Nilambur	Stability Certificate Amount Credited to CCE Account on 27.06.23	Dileep Kumar P G
40	Pozhuthana Grama Panchayath, 10/12, Pozhuthana, Pozhuthana, Wayanad, Kerala, 673575	Soil Test, Structural Design	Dileep Kumar P G
41	Secretary Block Panchayath Koduvally 19/669, Secretary Koduvally Block Panchayat, Koduvally Po, Kozhikode, Kozhikode, Kerala, 673572	Plan & Structural Design	Dileep Kumar P G
42	STREAMLINE CONSRTIUM 19/124Z, Keyems Arcade, East Tali, Chalapuram, Kozhikode, Kerala, 673002 (IMCH Managing Director)	STRUCTURAL DESIGN	Dileep Kumar P G
43	Assistant Engineer Lsgd Section Perumanna Grama Panchayath 11/638, Perumanna, Perumanna, Kozhikode, Kerala, 673019	DPR	Dileep Kumar P G
44	Assistant Engineer Kozhikode Municipal Corporation (Habeeb Construction - GST NO)	MIX DESIGN	RAGESH P P

45	Executive Engineer, Lsgd Division District Panchayat, 627/34, Kozhikode Jilla Panchayath Building, Kozhikode Civil Station Road, Kozhikode, Kozhikode, Kerala, 673020	STRUCTURAL DESIGN	Dileep Kumar P G
46	Executive Engineer, Cpwd Kendriya Bhavan, 2nd Floor, M S Baburaj, Kallai, Kozhikode, Kerala, 673003	STRUCTURAL DESIGN	Dileep Kumar P G
47	Secretary, 8/222, Kalpetta Municipality, Kalpetta, Kalpetta, Wayanad, Kerala, 673121	Structural Design and Soil Test	Dileep Kumar P G
48	Manager, Fthimagiri English School	STABILITY CERTIFICATE	Dr.Ragesh P P
49	Noushad.M.M, Cp-Xiii-336, Noushad Cottage, Chengala, Kasargod, Kerala, 671541	DESIGN MIX	Dr.Ragesh P P
50	Kozhikode Municipal Corporation, 8/359a, Secretary Kozhikode Municipal Corporation, Beach Road, Beach Post, Kozhikode, Kerala, 673032	SOIL TEST	Dileep Kumar P G
51	Kozhikode Municipal Corporation, 8/359a, Secretary Kozhikode Municipal Corporation, Beach Road, Beach Post, Kozhikode, Kerala, 673032	Structural Design	Dileep Kumar P G
52	Assistant Engineer Lsgd Section Kakkur Grama Panchayat, 12/379/A, Kakkur Grama Panchayat, Kakkur, Kakkur, Kozhikode, Kerala, 673613	Structural Design	Dileep Kumar P G
53	Kozhikode Municipal Corporation, 8/359a, Secretary Kozhikode Municipal Corporation, Beach Road, Beach Post, Kozhikode, Kerala, 673032	Structural Design	Dileep Kumar P G
54	Office Of Assistant Engineer, Olavanna Gp 20/363, Lsgd Section Olavanna, Olavanna, Kozhikode, Kozhikode, Kerala, 673014	Structural Design	Dileep Kumar P G
55	K Shameer, Puthalam, Kattat House, Puthalam, Areekode, Malappuram, Kerala, 673639	Mix Design	Dr.Ragesh P P
56	Kozhikode Municipal Corporation, 8/359a, Secretary Kozhikode Municipal Corporation, Beach Road, Beach Post, Kozhikode, Kerala, 673032	Soil Test	Dileep Kumar P G

57	Manager, ChaniyeriMopla L P School, Kuruvangad , Koyilandi	STABILITY CERTIFICATE	Dr.Ragesh P P
58	Manager, Vidyatharangini L P Schooo, Edakkulam, Chengottukaavu	STABILITY CERTIFICATE	Dr.Ragesh P P
59	Manager Amrita Public School, ManiyoorPanchayathu, Kozhikode	STABILITY CERTIFICATE	Dr.Ragesh P P
60	Executive Engineer CPWD Kannur	Ladies Hostel Construction	Dileep Kumar P G
61	Executive Engineer CPWD Kannur	Hostel Construction	Dileep Kumar P G
62	Koniyakath Hassan Sha, Nediyruppu, Malappuram	Mix Design	Ragesh P P
63	Shyama S, AE LSGD Velam KKD	Structural Design	Ragesh P P
64	Vadakara Block Panchayat, ChombalaVatakara	Soil Investigation & Structural Design	Dileep Kumar P G
65	Sujith Kumar RS, Chief Architect, SK Architect, Talap, Kannur	Structural Design	Dileep Kumar P G
66	Executive Engineer CPWD Kannur	Structural Design	Dileep Kumar P G
67	Executive Engineer CPWD Kannur	Structural Design	Dileep Kumar P G
68	NanmindaGramapanchayat	Structural Design	Dileep Kumar P G
69	AreeParambilShaiju, EledathThodikayilKodiyathur, Mukkom	Mix Design	Ragesh P P
70	SafeerKunnummal, Kuttiadi	Mix Design	Ragesh P P
71	Kerala Institute of Local Administration	Soil Testing	Dileep Kumar P G
72	Ashraf P T, Poovathikkal, Areekode	Mix Design	Ragesh P P
73	Manager, SreeNarayanaVilasom School, Chelannur	Structural Design	Ragesh P P
74	K Ali, Manager, AMLP School, Arakkinar	Stability Certificate	RahmathullaNoufal
75	Manager, Al Anvar UP School, Kuniyil, Areekode, Malappuram	Stability Certificate	RahmathullaNoufal
76	Secretary, MadavoorPanchayat	Structural Design	Dileep Kumar P G
77	Manager, Thiruvangoor HS, Koyilandi	Stability Certificate	Ragesh P P
79	Chekku V P, Vazhikkadav, Malappuram	Soil Testing	Dileep Kumar P G
80	B& I Constructions, Ferok	Structural Scrutiny of Indoor Stadium Kakkodi	RahmathullaNoufal
81	Block Development Officer, Panthalayani, Koyilandi	Soil Investigation &Structral Design	Dileep Kumar P G
82	Manager, Nochad AMLP School	Stability Certificate	RahmathullaNoufal
83	K K Constructions	Design Approval	Dileep Kumar P G
84	Executive Engineer CPWD Kannur	Structural Design	RahmathullaNoufal
85	Executive Engineer CPWD Kannur	Structural Design	Dileep Kumar P G
86	Executive Engineer CPWD Kannur	Construction of Hostel	Dileep Kumar P G

87	Jyothibas V, KWA Contractor, Manassery	Design Approval	RahmathullaNoufal
88	Reena Engineers & Contractors, Kannur	Structural Scrutiny	RahmathullaNoufal
89	ShecasoEdakkaramalappuram	Stability Certificate	RahmathullaNoufal
90	MuhammedShafi A, KK Puram KSHB Colony Malaparamba	Mix Design	Ragesh P P
91	Rameshan K, Kedaram, KSHB Colony, Malaparamba	Structural Scrutiny	RahmathullaNoufal
92	Executive Engineer CPWD Kannur	Structural Design	Dileep Kumar P G
93	Kerala Industrial Infrastructure Development Corporation	Valuationof Buildings & Structure	Ansu V
94	Executive Engineer CPWD Kannur	Structural Design	RahmathullaNoufal
95	Noorul Hassan, Karalikkattil (H), Wandoor (PO), Malappuram	Structural Design	Dileep Kumar P G
96	MuhammedShameem, Angadipuram, Malappuram	Structural Design	RahmathullaNoufal
97	Hascon Constructions & Interiors, Methottuthazham, Kozhikode	Structural Design	RahmathullaNoufal
98	T Sathyan, PWD Contractor, Olavanna	Structural Design	Dileep Kumar P G
99	TripangodeGramaPanchayat	Structural Stability	Dileep Kumar P G
100	Rotana Motor Private Ltd YMCA Cross Road	Structural Stability	Dr.RahmathullaNoufal E
101	Southern Green Farming & Marketing Multi State Co-operative Society Ltd	Structural Design	Dileep Kumar P G
102	C M Abdul Nazar M , KWA Contractor, Koorachundu	Structural Scrutiny	Dr.RahmathullaNoufal E
103	Abdul Nazar M, KWA Contractor, Kunnamgangalam	Structural Scrutiny	Dr.RahmathullaNoufal E
104	The Headmaster, HSS, Ummathur, Parakkadavu	Stability Certificate	Dr.RahmathullaNoufal E
105	T T Constructions, Kottoli, Calicut	Structural Scrutiny	Dr.RahmathullaNoufal E
106	President&Secretary, Nural Islam Mal Educational Sociery, Attakulangara	Stability Certificate	Dileep Kumar P G
107	Suresh, Koodathamkandiyil, Aroor, Vatakara	Stability Certificate	Dileep Kumar P G
108	CPWD, Kannur	Structural Design	Dr.RahmathullaNoufal E
109	CPWD, Kannur	Structural Design	Dileep Kumar P G
110	T I Raju, AshaBhavan, Kottaram Road, Kozhikode	Structural Scrutiny	Dr.RahmathullaNoufal E
111	T I Raju, AshaBhavan, Kottaram Road, Kozhikode	Structural Scrutiny	Dr.RahmathullaNoufal E

112	Manager, Iringannur, HSS, Kozhikode	Stability Certificate	Dr.RahmathullaNoufal E
113	Maliyekkal Construction Company, Vengara PO, Malappuram	Structural Scrutiny	Dr.RahmathullaNoufal E
114	Secretary, Kattippara GP	Soil Investigation &Strucutral Design	Dileep Kumar P G
115	Muncipal Office, Vatakara	Structural Design	Dileep Kumar P G
116	Asst. Exe. Engineer, Agriculture, kozhikode	Structural Design	Dr.RahmathullaNoufal E
117	Exe.Engineer, CPWD, Kallai, Kozhikode	Soil Investigation	Dr.RahmathullaNoufal E
118	ULCCS LTdVatakara	Mix Design	Dr.Ragesh P P
119	ULCCS LTdVatakara	Mix Design	Dr.Ragesh P P
120	AE, LSGD, Chorod	Soil Investigation	Dileep Kumar P G
121	AE, ThirurangadiMunicipality	Structural Design	Dileep Kumar P G
122	AMUP School, Kunnamkulangara, Manakkadavu	Stability Certificate	Dr.Ragesh P P
123	AM HSS Poovambayil, Balussery	Stability Certificate	Dr.Ragesh P P
124	Secretary, Block PanchayathKoduvally	Structural Design	Dileep Kumar P G
125	Secretary, Ulliyeri GP	Soil Investigation &Strucutral Design	Dileep Kumar P G
126	Secretary, Ulliyeri GP	Structural Design	Dileep Kumar P G
127	Secretary, Ulliyeri GP	Structural Design	Dileep Kumar P G
128	AM LP School, PalakkodeVandoor	Stability Certificate	Dr.RahmathullaNoufal E
129	AE, LSGD, Chemenchery GP	Soil Investigation &Strucutral Design	Dileep Kumar P G
130	AE, Olavanna GP	Soil Investigation	Dileep Kumar P G
131	AE, Peruvayal GP	Soil Investigation &Strucutral Design	Dileep Kumar P G
132	ABM4 Builders, Nilambur	Structural Design	Dileep Kumar P G
133	R S Sujith Kumar, SK Architects	Vetting of Drawing	Dr.Ragesh P P
134	Steel Industrial Kerala Ltd, Azheekkal PO, Kannur	Structural vetting	Dr.Ragesh P P
135	MuhammedTharique, Mampad, Malappuram	Mix Design	Dr.Ragesh P P
136	ULCCS Vatakara	Mix Design	Dr.Ragesh P P
137	Secretary, Azhiyur GP	Soil Investigation &Strucutral Design	Dileep Kumar P G
138	AE, LSGD, Edachery GP, Vatakara	Structural design	Dileep Kumar P G
139	Secretary, Kozhikode MuncipalCorportion	Soil Investigation &Strucutral Design	Dileep Kumar P G
140	Secretary, Kozhikode MuncipalCorportion	Soil Investigation &Strucutral Design	Dileep Kumar P G
141	Secretary, Kozhikode MuncipalCorportion	Strucutral Design	Dileep Kumar P G
142	Secretary, Kozhikode MuncipalCorportion	Soil Investigation &Strucutral Design	Dileep Kumar P G

143	Secretary, Kozhikode Municipal Corporation	Soil Investigation & Structural Design	Dileep Kumar P G
144	Secretary, Kavilumpara GP, Kozhikode	Structural Design	Dileep Kumar P G
145	LSGD, Kakkodi GP, Kozhikode	Soil Investigation & Structural Design	Dileep Kumar P G
146	AE, KYIPO, M Section, Kakkodi	Stability	Dr. Abdul Raof
147	Secretary, Keezhuparamba GP	Soil Investigation & Structural Design	Dileep Kumar P G
148	KSEB Patton, Thiruvananthapuram	Soil Investigation	Dr. Rahmathulla Noufal E
149	AE, LSGD, AR Nagar, Kolappuram	Soil Investigation & Structural Design	Dileep Kumar P G
150	AE, LSGD, Kottur GP, Avitanallur PO	Structural design	Dileep Kumar P G
151	KSIDC, Kozhikode	Valuation of assets	Dr. Ansu V
152	P T Ashraf, Edavanna, Malappuram	Mix Design	Dr. Ragesh P P
153	Cochin Suraksha Fire & Security, Ernakulam	Mix Design	Dr. Ragesh P P
154	Manager, ALP School, Pallikkara	Stability Certificate	Dr. Ragesh P P
155	AE, Kuruvattur GP, Kozhikode	Structural design	Dileep Kumar P G
156	AE, LSGD, Chorod GP	Soil Investigation & Structural Design	Dileep Kumar P G
157	LSGD Section, Kakkodi GP	Soil Investigation & Structural Design	Dileep Kumar P G
158	Exe. Engineer, LSGD, Kozhikode	Structural design	Dileep Kumar P G
159	Principal, Govt. College, Madappally	Soil Investigation & Structural Design	Dileep Kumar P G
160	Secretary, Ulliyeri GP	Soil Investigation & Structural Design	Dileep Kumar P G

Total amount collected for Material Testing for the period 2023-24:

Material Testing : Rs.7,67,660/-

Consultancy : Rs.1,24,73,621/-

13. ACTIVITIES OF COLLEGE UNION

ADVIKA COLLEGE UNION 2023-24

DRISHYA '24

SARANGI ARTS CLUB

Prepared by

SIYA JAIN

ARTS CLUB
SECRETARY

&

Dr. SAILESH.R

UNION ADVISOR

The cultural landscape of Government Engineering College Kozhikode blossomed once again with the vibrant hues of creativity and talent as it played host to Drishya '24, its annual arts festival on March 1, 2, 3 2024. Drishya, meaning 'vision', epitomizes the kaleidoscope of perspectives and expressions brought forth by the students, transforming the campus into a dynamic hub of artistic endeavors and cultural exchange.

Amidst the backdrop of innovation and academic excellence, Drishya '24 emerged as a platform where students not only showcased their artistic prowess but also celebrated the spirit of unity, diversity, and collaboration. Through a plethora of events spanning various genres and forms of art, the festival aimed to ignite imagination, foster camaraderie, and inspire a deeper appreciation for the arts among the student community.

To ensure efficient organization and representation, Drishya '24 implemented a department-wise pooling system. Each department became a self-contained unit, fostering collaboration and camaraderie among students with shared academic interests. To oversee the operations of each pool, experienced individuals from the senior years were appointed as Pool Heads, bringing leadership and guidance to their respective departments. Additionally, to promote inclusivity and empower emerging leaders, Pool Co-Heads from the third year were carefully selected, working alongside their seniors to facilitate seamless coordination and communication within the pools. This hierarchical structure not only ensured effective management but also provided invaluable opportunities for mentorship and skill development, embodying the ethos of Drishya '24 as a platform for holistic growth and collaborative excellence.

Kicking off the festivities leading up to Drishya '24, the literary events took center stage in the week preceding the main extravaganza. This dedicated week served as a melting pot of literary exploration and expression, providing participants with a rich tapestry of events to engage their minds and kindle their creativity.

On 26th of February the programmes began with Malayalam Essay Writing, Sanskrit Poetry Writing, English Poetry Writing and Arabic Poetry Writing.

On 27th of February union conducted Stage 1 of Quiz, Malayalam Short Story Writing, Hindi Short Story Writing, Arabic Short Story Writing and Malayalam Poetry Writing.

Following this the next day, 28th of February union conducted Hindi Poetry Writing, English Essay Writing, English Short Story Writing and Sanskrit Short Story Writing.

On 29th February union conducted stage 2 of Quiz along with Hindi Essay Writing.

ETHNIC DAY

On the 29th of February, just before the grand festivities of Drishya '24 commenced, Advika College Union 2023-24 of Government Engineering College Kozhikode hosted an Ethnic Day with a retro theme. This pre-event celebration was not only a moment of relaxation for students but also served as a vibrant prelude, igniting the spirit and anticipation for the upcoming days of Drishya.

Embracing the rich diversity of cultures and traditions, Ethnic Day provided a platform for students to showcase their heritage through traditional attire, music, dance, and cuisine. The retro theme added a nostalgic twist, transporting participants back in time to an era of classic styles and timeless charm.

Amidst the hustle and bustle of academic life, Ethnic Day offered a welcome respite, allowing students to unwind and immerse themselves in the festive atmosphere. It served as a reminder of the importance of cultural appreciation and camaraderie, fostering a sense of unity and belonging within the campus community.

As the echoes of laughter and the rhythm of retro beats filled the air, Ethnic Day not only set the stage for the days ahead but also laid the foundation for a celebration that would be remembered for years to come. It was a joyous occasion that brought students together in celebration of diversity, creativity, and the spirit of Drishya '24.



DAY 1 : MARCH 1, 2024

On the first day we hosted 31 events including 26 individual events and 5 group events.

The events were conducted on six different stages that included Main Stage as Stage 1, a stage near civil block was temporarily laid and was considered as Stage 2, other stages included classrooms such as MB 204 as Stage 3, MB 107 as Stage 4, MB 306 as Stage 5, MB 207 as Stage 6.



Mainstage items of Drishya 2024





Other stage items of Drishya 2024



Other stage items of Drishya 2024



Main stage items of Drishya 2024



Active audience of Drishya 2024

DAY 2 : MARCH 2, 2024

INAUGURAL CEREMONY

The inaugural ceremony of Drishya '24 commenced promptly at 10 AM, marking the beginning of an exhilarating journey filled with creativity and talent. The esteemed chief guest for the day was Sri. Rohith Chandrasekhar, an illustrious alumnus of Government Engineering College Kozhikode from the 2010 batch, specializing in AEI (Applied Electronics and Instrumentation). His role as an Senior Associate Director in the acclaimed movie "Premalu" added a touch of glamour and intrigue to the ceremony, inspiring awe and admiration among the audience.

Welcome Address was conveyed by Union Advisor Dr. Sailesh R. Presidential Address was delivered by Principal Dr. P. C. Reghu Raj. Inaugural Address by Sri. Rohith Chandrasekhar. Felicitations by different department HODs and College Union Chairperson Mr. Muhammed Faris Ameen K. P. Finally, Vote of Thanks by Arts Club Secretary Miss Siya Jain.

The inaugural ceremony wound up by 12 noon and the competitions were restarted by 1:30pm. On the second day of Drishya '24 14 events were conducted including 9 individual events and 5 group events engaging 4 stages. By the end of second day, the competition brimmed with fervent spirit and infectious enthusiasm.



Honorable chief guest Sri. Rohit Chandrasekhar, Alumni (2010 AEI) & Chief Associate Director, "Premalu" (Latest project) at the inaugural ceremony.





DAY 3 : MARCH 3, 2024

On the final day of Drishya '24, Union conducted 14 events including 6 individual events and 8 group events engaging 3 stages.

On the closing ceremony ECE department became the overall champions with a score of 196, followed by CHE department with a score of 175, ME department with 154, CE department with 146, CSD department with 110 and AEI department with 71 points.

Kalathilakam was awarded to Parvathy U. S. and Kalaprathibha was awarded to Adil M. C. K.



Traditional “oppana” of Malabar region





The collaboration between students and faculty undoubtedly played a crucial role in making Drishya '24 a grand success. The combined efforts brought together diverse perspectives, expertise, and resources, leading to a rich and vibrant event. The students' enthusiasm, creativity, and hard work, combined with the guidance, mentorship, and support from the faculty, created an environment conducive to learning, innovation, and excellence. Together, they surpassed expectations, leaving a lasting impact on everyone involved and setting a high standard for future endeavors. Drishya '24 stands as a testament to the power of teamwork and collaboration in achieving extraordinary outcomes.

In addition to the above College union also conducted the “Halloween” day. Holy celebrations were conducted in the most enjoyable, peaceful way and many programmes with full active participation from students in the best fruitful manner, relieving the students of academic stress at intervals making them more productive as well as enhancing their extra-curricular, social, inter-personal, leadership skills and group behaviour.

The college union is organizing a technical festival “Lakshya 2024” to be conducted on 1st, 2nd and 3rd of May 2024.

SPORTS AND GAMES ADMINISTRATION REPORT

GENERAL CAPTAIN : NAEEM AHAMMED

Introduction:

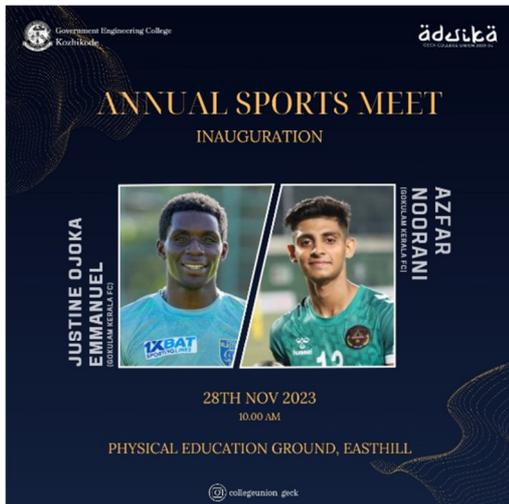
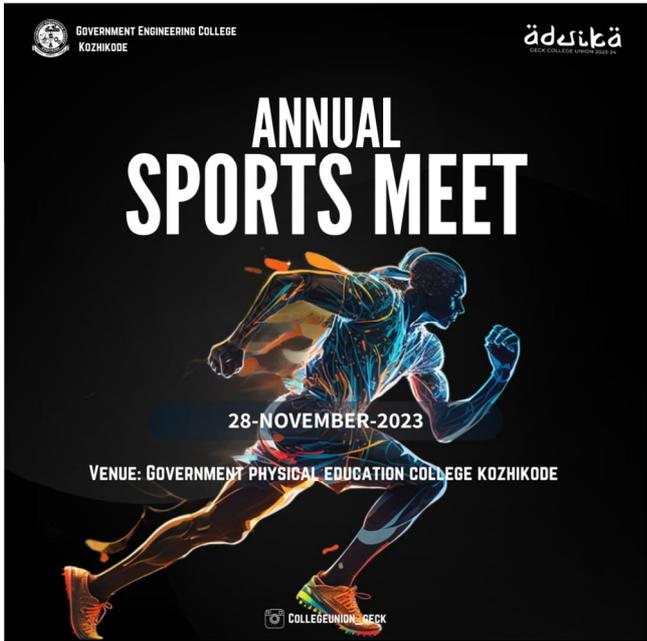
Welcome to the unveiling of our school's Annual Sports and Games Report, a testament to the vibrant spirit of athleticism and camaraderie that defines our school community. Over the past year, our students have showcased exemplary dedication, talent, and sportsmanship across a myriad of sporting disciplines, leaving an indelible mark on the landscape of school athletics. From the exhilarating triumphs on the playing field to the invaluable lessons learned in moments of challenge and defeat, our students have embodied the core values of resilience, teamwork, and fair play. This report serves as a tribute to their unwavering commitment to excellence and their unwavering pursuit of sporting glory. As we reflect on the past year's achievements and celebrate the triumphs of our student-athletes, we honor the achievements and embrace the boundless potential that lies ahead in the world of sports and games.

Annual Sports Day

The Annual Sports Days held at Government College of Physical Education, Easthill, on November 28, 2023, and Government Polytechnic College, Westhill, on May 6, 2024, organized by the ADVIKA College Union, were exhilarating celebrations of athleticism and team spirit. These highly anticipated events witnessed a remarkable turnout of enthusiastic participants from across the student body, showcasing their talent and competitive spirit in a wide array of sporting disciplines. From thrilling track and field competitions to intense team sports tournaments, the sports days were a testament to the vibrant sporting culture fostered within the college community. The report provides a detailed account of the action-packed events, featuring captivating photographs, inspiring anecdotes, and compelling statistics that highlight the dedication and achievement of the students. With the unwavering support of organizers, coaches, and volunteers, these sports days not only showcased the athletic prowess of the participants but also instilled values of teamwork, perseverance, and sportsmanship, making them memorable and impactful experiences for all involved.

Overall champions : Mechanical Engineering Department

Runners Up: Chemical Engineering Department



INTER-DEPARTMENT GAMES

Experience the thrill of friendly competition and camaraderie as departments come together for the highly anticipated Inter-Department Games. This annual event brings students and faculty from different departments under one banner to showcase their sporting talents and team spirit. From adrenaline-pumping matches to lighthearted contests, participants engage in a variety of sports and games, fostering a sense of unity and community across the campus. With enthusiastic cheers from supporters and a vibrant atmosphere of sportsmanship, the Inter-Department Games are not just about winning medals, but about forging lasting bonds and creating cherished memories. Join us as we celebrate athleticism, teamwork, and the joy of healthy competition in this exciting campus tradition.

FOOTBALL TOURNAMENT

Inter department football tournament was conducted by ADVIKA COLLEGE UNION from 2nd April,2024 to 8th April 2024 held at Government Polytechnic college Westhill . We were delighted to have successfully completing inter department football tournament, which showcased exceptional talent and spirited competition. Congratulations to the winners for their outstanding performance and commendable sportsmanship!

Winners: Chemical engineering department

Runners: Applied electronics Engineering department





CRICKET TOURNAMENT

Inter department Cricket tournament was conducted by ADVIKA COLLEGE UNION from 15th April,2024 to 17th April 2024 held at Government Polytechnic college Westhill. Congratulations to all the participants and organizers on the successful completion of the cricket tournament! It was a thrilling display of sportsmanship, skill, and teamwork. Heartfelt congratulations to the winners for their outstanding performance and determination. Your hard work and dedication truly paid off. Here's to many more successful tournaments in the future!

Winners: Mechanical engineering department
Runners: Applied electronics Engineering department.



14. CONVOCATION CEREMONY 2022-23

The first ever convocation ceremony in the history of the institution was conducted on 28th Nov 2023 in Manufacturing Technology Lab Auditorium of the institution. The function started at 10AM. The function started with an invocation and was presided over by Dr L.S. Ganesh, Chairman (Board of Governors). Dr. Prasad Krishna, Director, National Institute of Technology Calicut was the Chief Guest. Dr. Sudheesh R.S, Convener of the function welcomed the guests of honor, the faculty and the graduands to the meeting. Besides the Chairman and the Chief Guest, the Principal, and Deans were on the dias, who jointly lighted the ceremonial lamp. The BoG Chairman gave the presidential address, which was followed by the inspirational talk by the chief guest. The Principal Dr P.C. Reghu Raj presented the Annual Report. Subsequently, the BoG Chairman declared the convocation open. The Principal then asked the Heads of Departments to present the graduates to receive the certificates. Dr Prasad Krishna, Dr. L.S Ganesh and Dr P.C. Reghu Raj distributed the certificates. For the academic year 2022-23, 236 B.Tech graduates and 32 M.Tech graduates eligible to receive the degrees. A total of 178 UG and 15 PG students were present for the function and received the award with the certificates in person. The Chief Guest also felicitated *Ms. Fahmida, the first rank holder in B.Tech (Chemical Engineering)* during the function. Dr E.S. Shajahan, PG Dean administered the oath to the graduates. Dr Shaji K, UG Dean expressed Vote of thanks. The Chairman then declared the convocation closed. The function ended with the singing of the national anthem at 12 noon.



