



College of Engineering Muttathara

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

Department of Electrical and Electronics Engineering

ENLIGHT

NEWSLETTER VOLUME-1, ISSUE-1

BEGINNING OF AN ADVENTURE TO FEEL PROUD ON



EEE Department Association

About Department

The Department of Electrical and Electronics Engineering was established in the year 2016 with a sanctioned intake of 60. The department strongly believes in working towards the goal to make the students from engineers into skilled professionals. The department is a center of erudition, where we nurture young talents using new-age information and computer-intensive technologies. The well-experienced faculty members and technical staff are dedicated to delivering competent electrical engineers to the arena of the real world. Our major emphasizing imparting technical training is to encourage curiosity and innovativeness among our students and lay a foundation from which they can acquire quick learning ability and adapt to the fast-changing needs of the industry. We ensure that the graduated students are outfitted with core technical knowledge as well as professional skills necessary to face future technological challenges. They can play a major role in the development of renewables, hybrid and electric vehicles, energy storage systems, and energy-efficient lights, motors, and appliances for a clean energy environment.

About Vidhyuth

Electrical and Electronics Engineering Students' Association Vidhyuth was formed in the year 2018. Vidhyuth organizes many activities, such as, organizing guest lectures, Workshops industrial visits, co-curricular events, etc. throughout the year. Vidhyuth releasing its First Newsletter from this year onwards. Each year an executive committee will be selected from students. The committee will coordinate all activity of the association.



Department of Electrical and Electronics Engineering

Vision

To produce graduates in Electrical and Electronics Engineering with quality education by creating center of excellence in various domains, equip them in technical aspects to meet the industrial standards and provide an environment for quality research and continual learning in professional way to serve the society with ethical mean for the development of the nation.

Mission

1. Enriching the students in technical concepts through innovation teaching methods by qualified teachers.
2. Introducing industrial based education on correlation with the regular curriculum by establishing center of excellence in various domains to meet the industrial standards.
3. Inculcating the thoughts of innovation, research and continual learning to excel the students in their field of interest.
4. Facilitating the students by creating awareness on leadership quality, professional ethics and human values in delivering their responsibilities to the society for the development of nation.

ACTIVITIES 2021-2022

Vidhyuth activity inauguration

Our Vidhyuth activities started as part of Energy awareness week on Dec-9th. The event was inaugurated by Dr. R Sasikumar, Director of CAPE and he pointed out the importance of student & faculty innovations in the area of Energy conservation & management so that the common people will be benefited. The inaugural function started with welcome address from Dr. C Sreekanth, Head, EEE Dept., CE Muttathara and ended by vote of thanks from Mr Shibin D H, Assistant Professor, EEE Dept., CE Muttathara.



Energy Awareness Campaign

On December 11, 2021, BEE and EMC-Kerala hosted a one-day Energy Awareness Program (EAP) on the campus. The event was part of BEE & EMC-two-week Kerala's energy conservation program in every district of the state to commemorate National Energy Conservation Day on December 14. Dr. C. Sreekanth, HOD, EEE Department offered the welcome address. Dr. Sajeev V, gave the presidential address. CAPE Director Dr. R. Sasikumar opened the ceremony and emphasized student and faculty energy initiatives. He also emphasized electric car infrastructure. He spoke about harnessing renewable energy to tackle the world's problems. 52 students attended the energy awareness seminar.

Assistant Professor Anas S. R. led the first EAP energy-saving session. He gave ideas on saving energy in electrical appliances. Also mentioned: energy-efficient buildings and gas stoves. Assistant Professor Jijo Balakrishnan led the electric vehicle session. He discussed electric car design and recharge stations. Go electric campaign was conducted by college. An electric vehicle show was also arranged. A huge thanks to MG and Toyota for collaborating with us. Volunteers distributed brochures and posters to promote the message "Go electric and conserve energy".



Industrial visit

The Seventh semester students were visited to 110kV substation, Paruthippara, Trivandrum during October 2022. It is a 110kV/66kV/11kV substation having 126MW capacity. The substation has two three phase transformers of 63MW each. It is the oldest substation in Thiruvananthapuram and was commissioned in 1978. There are 4 main feeders into this substation. The substation supplies power in 2 ratings - 66kV and 11kV. The power basically comes from the Sabarigiri power project via Edamon and Pothencode. We visited the substation yard and saw different substation equipment such as transformers, isolators, different types of circuit breakers, CTs, PTs, Surge arresters, relays etc. We were guided by the sub-Engineer throughout the yard and explained in detail about the order and arrangement of substation equipments, protection equipment, data controlling systems, and control rooms of the station.



WORKSHOP

Hands-on training on PIC Microcontroller

Vidhyuth EEE Department association of CEM directed a two days hands-on session on PIC Microcontroller on 23rd and 24th June 2022. The event was inaugurated by Dr.Bejoy Abraham, Principal of CEM. The session underlined the importance of the PIC Microcontroller.

There was a practical and a theory session on PIC Microcontroller On 23rd June 2022, trainers from a partner organization, AB Technology delivered a theoretical as well as a practical introduction to PIC Microcontroller.

On 24th June 2022, students modeled and developed an inverter circuit of the MOSFET Driver Circuit. At the end of the training session, instructors selected the best design kit and handed it over to the Department. The training session benefited the students to obtain outstanding insight about the topic and Microcontrollers working.



EXPERT TALK

Industrial Automation.

An expert talk on the title “Industrial Automation” has been organized for Final year and Pre-Final year students on 5th June 2022 BY 7 P.M through online mode. The resource person Mr.UMESH .K .THANKAPPAN, Senior Instrumentation commissioning Engineer, Petroleum Development of Oman has 20+ years of experience as a Lead engineer in various Oil Industries. The session was started by welcoming the resource person by the Head of the Department Dr.C.Sreekanth

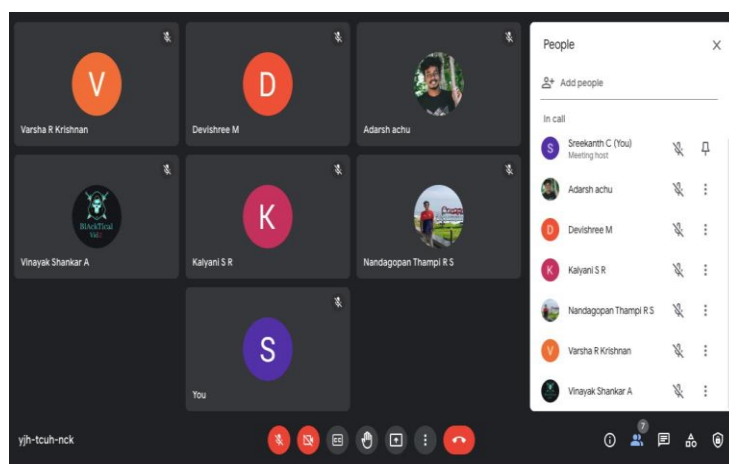
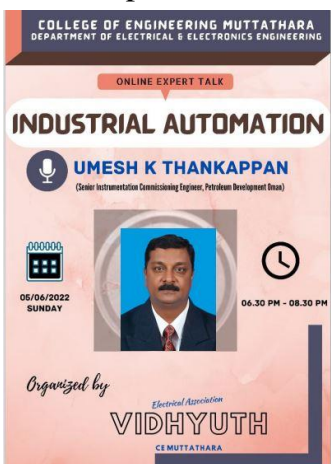
The working principle of Programmable Logic Controller (PLC), Distributed Control System (DCS), Supervisory Control, and Data Acquisition System (SCADA) were discussed in detail Real-time time applications of PLC, DCS, and SCADA in Industries were also discussed with necessary demonstrations. The Opportunities in various Industries for Electrical Engineers who have expertisation in Automation were discussed in the session. The session ended with a vote of thanks by Mr.Shibin D H, Association staff In-Charge EEE.

Availing KTU laptop scheme

On March 4,2022 during the inauguration of new CAPE building college conducted a program to distribute laptops to the students who have low financial background as the part of the scheme on Bridging the digital divide. Hon'ble Vice Chancellor of APJ Abdul kalam technological University, After that The laptops was distributed to 6 students by the Hon'ble Vice Chancellor of APJ Abdul Kalam Technological University.



Divya S.S S6 EEE receiving laptop from KTU Vice Chancellor Dr.RAJASREE M.S



VIDHYUTH

OFFICE BEARERS OF 2021-2022 Executive Members 2021-2022

Faculty in charge

Shibin DH Assistant prof. Dept of EEE

President

Aravind C.S S7

Vice president

Divya SS S5

Secretary

Britto Alosious S5

Joint secretary

Devika S S3

Treasurer

Nandagopan Thampi S7

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3.AromalSreekumarD--S5

4.BilalAhamed--S5

5.MithunJoy--S5

6.JyothikrishnanS--S5

7.SupriyaSP--S3

8.AnanduB--S3

9.SonaS-S3

10.Anoop.PR S3



FAREWELL FOR SENIORS 2021-2022



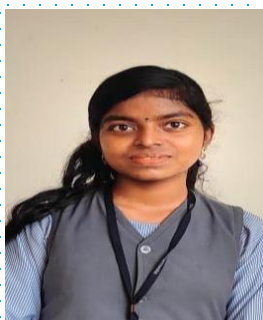
ONAM CELEBRATION 2021-2022

Toppers

2021-2022



Shajin J
CGPA-8.14
2019-2023



Supriya S.P
CGPA-9.77
2020-2024



Ajin P Wilfred
CGPA-8.21
2021-2025

Campus recruitment



Varsha R Krishnan
Placed at Capgemini

Varsha R Krishnan is very hardworking student with sufficient hard and soft skills. She acquired all this quality through hardwork and commitment. She followed strict discipline in her academic as well as in extra curriculum. The quality that makes Varsha a different student from others is her ability of perseverance. She completed B. Tech with 8.34 CGPA and placed in Capgemini.



Vinayak Shankar A
Placed at UST Global

Vinayak Shankar is a very studios and hardworking student with a special ability of multitasking. He is very silent personality and always proves with his actions. He always approaches things with a positive mind that helps him to solve real life problems with innovative and realistic solutions. He completed B. Tech with 7.7 CGPA and placed in UST Global.

From Editorial Desk

Jyothikrishnan.S S7-EEE



It is with great pleasure that we bring you the first issue of VIDHYUTH, the yearly newsletter of EEE department of CEM. The name of our newsletter –ENLIGHT- signifies a brightness & expectations, and it very aptly sum up the prospects of our branch. With faculty that consist of bright minds and students who are keen to leave a mark. We are thankful to our faculty for coming up with name and idea of newsletter. The current newsletter highlights the activities of our students and the achievements of faculty during past one year.

It also features visit by eminent scholars, workshop and industrial tour. This newsletter also throws light on the infrastructure that EEE department has and the facilities that it provides. The intent of ENLIGHT is to disseminate information about our branch, and we hope that readers find the issue informative and useful. We are thankful to the management, faculty, staff and students of EEE branch for their valuable inputs and we welcome suggestions and feedback that will help us to improve further in next volume.