

OORJAM

DEPARTMENT OF EEE

JUNE 2022

INDUSTRIAL VISIT

S4 EEE Diploma students made one-day industrial visit (IV) at KEL, Mamala on 24 June 2022. Kerala Electrical & Allied Engineering Corporation Limited (KEL) is one among the largest productive public sector undertaking (PSU) owned by Government of Kerala. The company was founded in 1964 and is based in Kochi. **Ms. Hyma P. John, Ms. Neethu Maheswari** and **Mr. Dileep K.** (three faculty of EEE dept.) accompanied them. The programme was very informative.



PLACEMENT



Athulya V. S. of S8 EEE got placed as Java Developer in Vital Stats Innovations, an Ernakulum based company. The company is involved in computer related activities such as maintenance of websites and creation of multimedia presentations for various firms.



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DEPARTMENT ACTIVITY



Ms. Lekshmi Krishnan J., HOD of EEE Department has participated in the Faculty Development Program (FDP) on *Research Pedagogy and Contemporary Research*, from 23 to 25 June 2022. The FDP was conducted by St. Martin's Engineering College Secunderabad, in association with AICTE.

STUDENTS' CORNER

TOUR PROGRAMME

Students of S4 EEE Diploma visited Kodaikkanal and Munnar after their industrial visit. They left the college campus by tourist bus on 24 June 2022 and reached at Kodaikkanal on the next morning. They visited Pine Forest, Lake Side, Suicide Point, Pillar Rock and Coakers Walk. The next day morning the students proceeded to Munnar and visited the Echo Point and Mattupetti Dam. After the visit, they reached the college at midnight. The students were accompanied by three staff of EEE department.



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STUDENTS' PROJECT

AUTOMATIC BATTERY SWAPPING FOR DRONES

Drones are getting more cheap and efficient day by day. It's getting more exposure in different areas including delivery of fast-moving consumer goods, medicines, surveillance, mapping etc. The main disadvantages are for the autonomous drones which have to be continuously used every day. The battery capacity is limited to a certain range or the maximum flight times for the modern-day drones are up to 150 km. So, this will affect the reliability of the system. A solution for this problem is automatic battery swapping for drones. The concept is when a drone shows low battery then it will find the nearest location to swap the battery then it will land on the surface and the machine will extract the discharged battery and insert a charged one and make the drone complete its mission. The current device uses three stepper motors, an ultrasonic sensor, and a servomotor for the mechanical captions. These devices are controlled by Arduino Uno. The body of the swapping machine is made of mild steel square pipes and the parts are welded together. The parts are made portable for easy transport and fixing. This project will find application on the future of drones in such a way that petrol pumps are important to an IC engine vehicle.



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