



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on

**“MICROCONTROLLERS AND ITS IOT APPLICATIONS”**

---

### REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on **‘Microcontrollers and its IOT Applications’** on 22<sup>nd</sup> September, 2021.

**Beneficiaries** : III Year Students (9) & IV Year Students (15)

**Session Time** : 05.00 P.M to 6.00 P.M

**Venue** : Online (Google meet)

**Resource Person** : Mr. R. Raghuraman, M.E.

Assistant Professor /EEE

CK College of Engineering & Technology, Cuddalore.

The objective of this Guest Lecture is to impart fundamental knowledge on Microcontrollers and its varied IOT applications.

The resource person started the session with the interaction with the students about their knowledge and idea on (Internet of things) IOT in our day today life. First of all he educated the students with the difference between the computational intelligence and an IOT in automation industry. Then he moved on to brief the basic structure of IOT applications and explained each and every component involved in hardware setup of an IOT set up. He gave some idea on various microcontrollers which is the heart of any automation unit and also explained one such dominantly used microcontroller i.e. Arduino Uno Microcontroller Board in academic researches. After briefing the hardware details of Arduino UNO, he explained few coding ideas and programming platforms for microcontrollers.

He followed up with the concepts of interfacing Microcontroller Board with other electrical hardware elements and communication devices. Further, he provided basic knowledge of various sensing elements, communication devices and other hardware components available in the markets for doing a project. He shown and explained the process involved in home automation using IOT and he also displayed few completed projects under his supervision to the students. This gave some potential inputs and ideas to students for their initiation in mini projects and final year projects using microcontrollers and its application in IOT. Finally he gave few tips to choose the projects using microcontrollers and the possibilities of getting funds for these projects.

He also stressed the importance of introducing new products to the market through these projects. And he invited the queries and doubts from the students for discussion and clarification. The guest lecture was completely motivating and it kindled student's interest towards this growing technology and its impact on day today life. This session is absolutely very useful to student community and it serves as greater input to their final year projects.

### Photographs of Lecture Sessions

