

Report on Certificate Course on “Embedded Systems using ARM-Mbed”

The Electronics and Communication Engineering department has conducted a 4 day certificate course on “Embedded Systems using ARM-Mbed” from 11th Mar 2019 to 14th Mar 2019 in Association with APITA, Vijayawada. The objective of course is students are able to stand apart from the rest in the job market by adding further value to their resume. This four days session was taken by **Mr. Prathamesh, Systems Engineer, Eduvance, Mumbai.** The total of 71 students from III year was attended for this course. The content covered during these four days includes basic knowledge on Micro processor and Micro controller, API based applications, Digital outputs & inputs and ARM-Mbed applications.



Head of the department Dr.K.Murali, Principal Dr. G. Srinivasulu Reddy and Resource person

Mr. Prathamesh on chair.



Head of the department Dr.K.Murali, Principal Dr. G. Srinivasulu Reddy and Resource person Mr. Prathamesh were participated in Inauguration of Certificate course.

On 11th Mar 2019 after completion of inauguration certificate course, the students were gone through the introduction session of the resource person Mr.Prathamesh, Systems Engineer, Eduvance, Mumbai. In the morning session the resource person gave a brief introduction about microprocessor and microcontroller, blinking of LED, how to increase and decrease the intensity of LED by using microprocessor. He introduced about Breathing LED, by using the breathing LED how a user can change the intensity of LED gradually.



Principal Dr.G.srinivasulu Reddy garu giving information about Embedded Systems



Resource person Mr.Prathamesh explaining about course

In the second day the resource person introduced API's. By using API how to write a program and applications of API were discussed. Followed by API he discussed about ARM-Mbed tool and applications of ARM-Mbed applications. He discussed FRDM-KL25Z features and applications and also gave explanation for the student's questions regarding real time applications in ARM-Mbed.



Students were participated in hands on experience in Embedded systems using ARM-Mbed certificate course.



Hands on session by the students

The PWM introduction was given in the next day, API-UART based RFID applications were discussed. Sensing procedures on FRDM-KL25Z. In the last day he gave real time applications of ARM-Mbed like potentiometer, LDR, temperature sensor, I2C protocol based OLED and by using MMA8451Q how to convert 128 slaves into 1 master was explained.



APITA District manager Mr. Mohana Krishna & College staff, students from III year ECE were participated in valedictory session of a four day certificate course.