EMBEDDED SYSTEM DEIGN LAB

Block No.4, Room No. 416, ECE Dept., MAIT

In the Embedded system design lab, the focus is on analysis, design and implementation of embedded hardware/software systems. Experiments on microcontrollers such as 8051, PIC16F877A and ARM are conducted. The lab assignments are first performed in simulation using Keil software. Further, the codes are build and debugged on real microcontroller. On completion of the lab course the students get a good understanding of embedded systems using modular design and abstraction.They also get hands on experience to build test circuits with switches, LEDs, resistors, LCDs and synchronization of hardware-software input/output switches and sensors.

Further, the lab is actively involved in embedded system based major and minor projects. Information regarding MSP 430 (TI) and ATMEL AVR microcontrollers is also decimated as extra-curricular experiments.