

Electronics & Microcontrollers Laboratory

The main objectives of Electronics and Microcontrollers lab are

- Develop the ability to analyze and design electronic circuits through simulation and using discrete components.
- Design and understand capabilities and limitations and make decisions regarding their best utilization in a specific application/ functions
- To be able to choose suitable microprocessors and microcontrollers for any design and implementations.
- To be able to interface microprocessors and microcontrollers with peripherals device.
- To impart the I/O interfacing concepts for developing real time embedded systems.
- To encourage the students in building real time applications.





Major Equipment and Software

1. ARM Keil Software -25 User License
2. Scientech Caddo 4210 Function Generator
3. Keysight DSOX 2002A 70 MHz, 2 Channel DSO with Built in FG, DVM, EDK
4. Scientific make Dual Trace CRO 30 MHz
5. NI-MyDAQ
6. Texas make Evaluation Boards for Microcontroller - ARM, PIC and ARM Cortex
7. NI MultiSim Software 25 User License with 26 Computer Systems

This lab is utilized for

Odd Semester

- U15EIP501- Microprocessors and Microcontrollers Lab
- U15EIP301- Analog Electronics Lab
- U17EII3201 – Analog Electronics Lab
- U14EIP701- Embedded Lab

Even Semester

- U15EIP401- Integrated Circuits Lab
- U17EII4202 – Digital Fundamentals and Microprocessors Lab
- U18EII2201- Foundation in Electrical & Electronics Engineering Lab