

Workshop/Seminar Topics

Fundamentals

- PCB Designing, Fabrication and Testing.
- Getting started with projects on discrete & Analog IC's.
- Introduction to Embedded systems and Interfacing basic modules with 8051/PIC/Arduino etc.,
- Communication Basics , Types(Parallel,Serial-UART, USART, I2C) and implementation.
- Interfacing of Sensors, motors and their drivers.

Softwares & Platforms

- Embedded 'C'
- Python
- OpenCV
- Android
- Matlab
- Labview
- Processing
- VB.Net

Communications and Networks

- Satellite Communications (GPS, GSM, GPRS)
- Short range communications (Zigbee, Bluetooth, 2.4GHz RF)
- Long range communications (AM, FM, Sub 1GHz RF)
- RFID -Technology and everyday applications
- IoT architecture, platforms, applications and challenges.

Microprocessors & Microcontrollers.

- 8051
- PIC
- AVR/ATMega - Arduino
- ARM 7 (LPC2148)
- ARM Cortex
- Raspberry Pi
- RTOS
- Robotics

Modes Of Training: Short term In Campus [SIC] – 1/2/3 day(s).
(On Any Topic) Long term In Campus [LIC] – 1/2 week(s).
Periodic In Campus [PIC] – 1day/week @ entire semester.