

**Course Title: GPS Positioning with PIC
Microcontroller**

Course Code: EEA 173

Course Background / Summary:

The course has been designed to familiarize academicians, technicians, and engineers dealing with microcontroller configuration. The application of microcontrollers varies from small applications such as pick and place to complex systems such as satellite, GPS navigation, drone, etc.

Course Objectives:

- Understand the basic concepts of microcontroller
- Understand microcontroller configuration
- Examples and demo application of microcontroller

Target Audience:

- Academicians, Engineers, Instructors

Course Duration: 2 Days

Course Contents

1.0 The Hardware Architecture of Microcontroller

2.0 I/O Pins and its Configuration

3.0 Analog to digital

4.0 Timers

5.0 UART and SPI

6.0 Interrupts (IOC and Others)

7.0 PWM

8.0 Simple Projects using Microcontroller