

Course Title: PIC Microcontroller in C Language Course Code: EEA 111

Course Background / Summary:

Microcontrollers are small, inexpensive computers that are used in a wide range of applications including portable communication devices, appliances, industrial control, and data logging systems. They eliminate the expense and complexity of using a full microprocessor when sensing and processing information. This subject will expose the participant to hardware, software, design, and interfacing aspects of the single-chip microcontroller which are used as controllers in embedded systems.

Course Objectives:

- Enhanced knowledge of PIC and programming in C language.
- Develop and program controlling devices using C language.
- Create and perform wiring connections from and to the devices.
- Download programs into PIC, test, and display output results.

Target Audience:

- Professionals involved in creating and developing embedded application systems with microcontrollers
- Lecturers/ Academicians/Instructors

Course Duration: 3 Days

Course Contents

1.0 Introduction to Microcontroller	5.0 Program Control Structures
2.0 Basic structure of C- programming	6.0 Functions
3.0 Variable & Constants	7.0 Pointers and Array
4.0 Operators	8.0 Projects