

Microcontroller Basic programming

Pre-request: General Knowledge about electronics

Course duration: 40 Hours

On completing this course you will be able to:

- Understand the difference between microcontroller And microprocessor
- How to deal with any microcontroller hardware
- Basics of programming of Embedded C
- Connect 7 segment with microcontroller
- Connect Any LCD with Microcontroller
- Control of speed and direction of DC motor
- Control of speed and direction of Stepper motor
- Connect AC motor with microcontroller
- Connect Keypad with microcontroller
- Make functions in micro
- Training practical with real circuit

Course Content:

- Electrical basics for any control engineer.
- C programming Fundamentals
- Dealing with Micro C program
- Difference between microcontroller and microprocessor.
- Input & output Configuration for microcontroller.
- Led circuits control
- Seven segment control.
- LCD control.
- Serial communication.
- Analogue operations
- Temperature control.
- PWM control
- Keypad control.
- DC Motor directional control.
- DC Motor Speed control.
- Stepper motor control.
- Led matrix control.
- Control of high power and 220 volt circuits with microcontroller.
- Final application