

# Microcontrollers Programming Applications

## Duration

5days 20Hours

## No. of Attendees

Max. 25 Attendees

## Language

Arabic , English



## Overview

This course is designed to provide a good baseline for the beginners in AVR microcontrollers programming providing practical applications.

## Topics

- What are AVR Microcontrollers?
  - Differences between microcontrollers and microprocessors
  - Where microcontrollers are used?
- Types of memories located in microcontrollers
  - EEPROM reading and writing
- Software Programming for AVR Microcontrollers
  - Introduction to C language programming
  - Writing embedded C language code
- Number systems and Conversions of number systems.
  - Reading data sheet techniques.
  - Input/output ports basics.
  - Hardware Programming for AVR Microcontrollers.
  - Handling microcontroller interrupts.
  - External Interrupt.
  - Timer Interrupt.
  - Practical Applications.