

ARDUINO TRAINING

SECTION 1 : ELECTRONICS FUNDAMENTALS

- Basic Introductions - Electronics
- Components of Arduino
- Working with Electronics
- Testing Components
- Basic Programming

SECTION 2 : DIGITAL ELECTRONICS AND LOGIC GATES

- Overview on Digital Electronics
- Principles of Digital Systems
- Logic gates and Logic circuits of Arduino
- Examples of Logic Gates
- Configurations of op-amp

SECTION 3 : EMBEDDED SYSTEMS

- Basic Functions and Fundamentals
- Sensors with the Arduino
- Electromechanical Control
- Wireless Control

SECTION 4 : MICROCONTROLLER CONCEPTS AND ARDUINO PLATFORM

- Coding with the Arduino
- USB Socket and Interface IC
- MicroController
 - Processor Core
 - Memory
 - Programmable I/O peripherals
- Variable declaration

SECTION 5 : COMPILERS, LEADERS AND IDE

- Software Installation
- Arduino IDE
- Application of Arduino

- Arduino I/O Programming
- Arduino Timers and ADC

SECTION 6 : ARDUINO / MSP430 BASICS

- What is Arduino / MSP430?
- What are the Features?
- Creating a sketch file
- Usage of Arduino
- SD Card Interfacing
- MSP430 LaunchPad

SECTION 7 : SENSORS IN ARDUINO

- Analog Sensors
- Digital Sensors
- Calibration
- Interfacing Methods
 - With NFC, LCD, RTC
 - I2C
 - Motors

SECTION 8 : ARDUINO TECHNIQUES

- Arduino Timers and ADC
- Serial communications with PC
- Interrupt Controller
- Arduino PVW Techniques
- Interfacing with Bluetooth

SECTION 9 : ARDUINO LIBRARIES

- Arduino EEPROM
- USB Host
- Scheduler
- Arduino ROBOT Library
- Arduino Ethernet Web server code



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Know more about [ARDUINO](#)



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