

Basic Electronics Course

 Duration: 1 Days

 Available Languages: English

Audience

People or students who want to learn basics about electronics.

Precondition

People should be willing and interested to learn the basic electronics concepts.

Goals

To teach and get through an introduction to electronics concepts to those who are quite new to the field.

Contents

- Introduction to electronics
 - Basics of electronics
 - Integrated circuits
- Electronic components
 - Types of electronic components
 - Passive components
 - Active components
 - Capacitors
 - Introduction
 - Function
 - Parallel and series capacitor
 - Inductors
 - Resistors
 - Introduction
 - Function
 - Colour band coding
 - Parallel and series resistor
 - Diodes
 - Regulators
 - Transformers
 - Transistors
- Sensors
 - What are the sensors?
 - Analog sensors
 - Digital sensors
 - Power supply to sensors
 - Sensor interfaces

- Actuators
 - What are actuators
 - Types of actuators
 - Solenoid
 - Piezoelectric actuator
 - Stepper motor
- Introduction to Embedded systems
 - What are embedded systems?
 - Microcontrollers
 - Microprocessors
 - Peripherals in MCU
 - Development boards
 - Applications of embedded systems
- Introduction to Computational devices
- Introduction to Communication protocols
 - What are communication protocols?
 - Types of communication protocol – inter system protocol and intra system protocol
 - UART
 - I2C
 - SPI
 - CAN
 - Bluetooth
 - Wi-Fi
- Introduction to Microcontrollers
 - What are microcontrollers?
 - Microcontroller vs microprocessor
 - Microcontroller architecture
 - Types of microcontrollers
 - Examples of microcontrollers – ARM, AVR, X86

Booking

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