

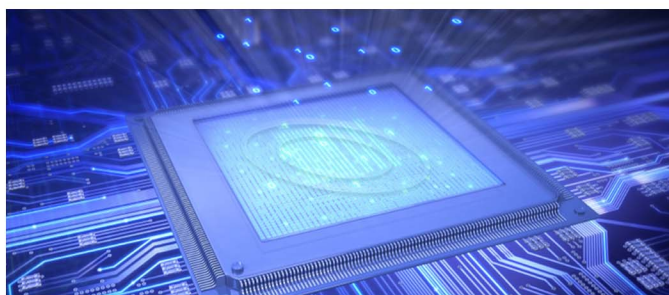
PROCESSORS AND PERIPHERALS

This Workshop is a practical approach targeted to improve the student's fundamentals in Microcontroller families and their different functionalities, architectures, coding types.

The objective is to provide adequate information about various Microcontrollers and their programming styles with which the learner will be able to initiate designing and developing their own codes that can be written on any type of Microcontroller.

DESCRIPTION

- o GPIOs,
- o ADCs and DACs
- o DC Motors, Stepper Motors,
- o Temperature Sensors,
- o LCDs,
- o Keypad Decoding,
- o UART, Timers, Counters, Interrupts Etc.



PLAT FORM

8051 family, ARM family (Introduction to IDE), MICROCHIP family (Introduction to IDE), ATMEL family(Introduction to IDE).

DURATION

4 Days (8 Hrs Per Day)

DELIVERY METHOD

Instructor driven, Basic programming in EMBEDDED-C, Hands-On assignments on the controller kit

COURSE TOPICS

Introduction to Microcontroller family types, programming, Microprocessors Vs Micro controllers, Architectures, Pin descriptions, Programming with internal peripherals, Interfacing and programming external peripherals – LEDs, switches, ADC/DAC, LCD, Keypad, Motor, Sensors etc.; interrupt handling and other efficient programming techniques

MATERIAL FOR THE PARTICIPANTS

1. Micro-controller Starter Kit (to be bought separately at subsidized rates)
2. CD containing all the slides, Programming Software, UART Terminal Controlling Apsis Proprietary executable and plenty of code examples.
3. Participation Certificates

