

Embedded C Syllabus

Embedded C Contents :

- Microprocessor & Microcontroller Classification
- Introduction To Mcs-51
- Introduction Of Embedded C
- Constants, Variables & Data Types
- Operators
- Control Structures & Loops
- Functions
- Handling Pointers
- Memory allocation
- Command line arguments
- Compiler
- Data Structures
- Sorting

Introduction to Embedded:

- What is embedded System
- Embedded Design development life cycle
- Embedded System Programming
- Embedded Systems Design Issues
- Electronics Designing Concepts
- Trends in Embedded Systems
- Challenges and Design Issues in Embedded Systems
- Memory (RAM, ROM, EPROM, EEPROM, FLASH)
- Host & Target Development environment
- Cross Compilers
- Programming Techniques
- Introduction to Embedded Development tools
- Assemblers, Compilers, Linkers, Loaders, Debuggers
- Embedded In-Circuit Emulators and JTAG

- Tools, Build Tools for Embedded Systems

Hardware Interfacing:

- Interfacing of LEDs
- Interfacing of Switches
- Interfacing of Relays
- Interfacing of LCD
- Interfacing of 7 Segment Display
- Interfacing of ADC
- Interfacing of Stepper Motors
- Interfacing of DC Motors
- Interfacing of Mobile Phone using DTMF
- Interfacing of Real Time Clock
- Interfacing of GSM
- Serial Communication
- Sensor Interfacing

Note: Above Interfacing can be taken with any of following microcontroller

- 8051
- PIC
- AVR
- ARM7

Course Duration: 30 days