

8051 Basic Course

Conducted by Satyabrata Das

Duration: 24 hours

MCS-51 Architecture

Internal ROM and RAM

System CLOCK

Program Counter, Data Pointer

CPU Registers and flags

Stack Pointer, Special Function Registers

I/O Ports, Timers and counters

Interrupts

Serial I/O

MCS-51 Programming

Data move, Addressing modes, Push and Pop

Logical operations at Byte and Bit levels

Arithmetic Operations

Addition, Subtraction, Multiplication and Division

Unsigned and Signed Operations

Decimal Arithmetic

Jump, Call and Return

Complete System Design with MCS-51

The student must fabricate a system, individually

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