

Certificate Course in Embedded system Design using 8051 Micro Controller

Objective of the Course:

To train the students on the 8051 Microcontroller which has good capacity for processing real world signals.

Learning Outcomes:

Participant shall learn to interface 8051 Microcontroller to real world devices.

Expected Job Roles:

Embedded Programmer

**Duration of the Course
(in hours)** 80 hrs

Appr. Fees (INR): Rs.8000/-

**Minimum Eligibility
Criteria and pre-
requisites, if any** Diploma or above

Outline of Course

S. No	Topic	Minimum No. of Hours
1.	Embedded C	8 hrs
2.	8051 architecture	6 hrs
3.	8051 Peripherals (LCD, Stepper Motor, Keypad etc)	8 hrs
4.	Interfacing 8051 to peripheral devices	8 hrs
Theory / Lecture Hours:		30 hrs
Practical / Tutorial / Lecture Hours:		50 hrs
Total Hours:		80 hrs

**Books recommended
for reference and
reading:** Muhammad Ali Mazidi, Janice Gillispie Mazidi, Rolin D. McKinlay, "The 8051
Microcontroller and Embedded Systems using Assembly and C", 2nd Edition,
Prentice Hall

Group Code: EMBD **Group Name:** Embedded Systems

Course Code: CT01 **Course Name:** Certificate Course in Embedded system Design using
8051 Micro Controller