

Short Term Courses – NIELIT Delhi Centre

Embedded System using 8051 and Arduino

Objective of the Course:

This short term course focuses on students having knowledge of Basic Electronics and willing to develop career in field of Embedded System

Learning Outcomes:

The student will able to know the programming in 8051 Microcontroller and open source embedded development board-Arduino and industrial applications of these modern microcontrollers.

Duration of the Course: 60 hrs
(In hours)

Minimum Eligibility Criteria and Prerequisite, if any:

Pursuing/Passed B.E./B. Tech /BCA/MCA/BSc./MSc.(IT/CS/Electronics) or Graduate (any stream) with PG Diploma (CA/CS/IT)/NIELIT A/B Level /NIELIT CHM-A Level or pursuing AICTE Approved three years diploma in Electronics /Electrical/Computers/Instrumentation or Equivalent.

Outline of Course

S. No	Topic	Hours
1.	Basic Electronics	05 Hrs
2.	8051 Microcontroller	25 Hrs
3.	Arduino	30 Hrs
	Theory	30 Hrs
	Practical	30 Hrs
	Total	60 Hrs

Books Recommended for Reading and Reference:

1. The 8051 Microcontroller and Embedded Systems by Mazidi
2. <https://www.arduino.cc/en/Tutorial/HomePage>