Short Term Courses – NIELIT Delhi Centre

Embedded System using 8051 and Arduino with Project

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: 80 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		5 Hrs
2.	8051 Microcontroller		17 Hrs
3.	Arduino		18 Hrs
		Theory	40 Hrs
		Practical	20 Hrs
		Project (Practical)	20 Hrs
		Total	80 Hrs

Books Recommended for Reading and Reference:

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