Certificate Course in Embedded System Design

Embedded System Design
04 Weeks Online Course

4 Weeks (2 Hrs. per day)
Timing: - 03:00 PM to 05:00 PM
Medium of Instruction: Bilingual (English & Hindi)

Objective

It forms basic skills in embedded systems design. Those skills are usable in designing digital control units for consumer electronics, industrial automation, telecommunication systems, etc.

B.E / B.Tech./ Diploma (Electrical/ Electronics / Instrumentation) with basic knowledge of C Programming (pursuing or completed)

Eligibility

Prerequisite

- Candidate must have latest computer/laptop with preferably 4 GB RAM or higher and Windows7/Windows10 O.S.
- Internet connection with good speed (preferably 2Mbps or higher).

Rs. 1600/- incl. GST & all other charges.

Course Fees

Certificate

Certificate will be provided to the participants, based on minimum 75% attendance and on performance (minimum 50% marks) in the online test, conducted at the end of the course.

✓ Instructor-led live classes.
✓ Instructor-led hands-on lab sessions through **Virtual Labs**
✓ Content Access through e-Learning portal.
✓ Assessment and Certification

Methodology

How to Apply

Step-1: Read the course structure & course requirements carefully.

Step-2: Visit the Registration portal and click on apply button.

Step-3: Create your login credentials and fill up all the details, see the preview and submit the form.

Step-4: Login with your credentials to verify the mobile number, email ID and then upload the documents, Lock the profile and Pay the Fees online, using ATM-Debit Card / Credit Card / Internet Banking / UPI etc.

Course Content

Day	Topic	Day	Topic
Day #01	Introduction to Embedded Systems	Day #11	Interfacing of Buzzer and Keypad with 8051
Day #02	Classification of Embedded Systems, Architecture of Embedded Systems, Design issues of Embedded Systems	Day #12	Interfacing of LCD display with 8051
Day #03	Introduction to Microprocessor and Microcontrollers	Day #13	Interfacing of Stepper Motor with 8051
Day #4	8051 Microcontroller Architecture	Day #14	Interfacing of DC Motor with 8051
Day #5	Memories and Registers of 8051	Day #15	Interfacing of A/D converter with 8051
Day #6	Introduction to Embedded C	Day #16	Introduction to ARM Microcontrollers
Day #7	Microcontroller Programming using Embedded C	Day #17	Introduction to ARM Microcontroller Architecture
Day #8	Input/output ports programming using Embedded C.	Day #18	RTOS Concepts
Day #9	Interfacing of LED display with 8051	Day #19	Query Session
Day #10	Interfacing of 7 segment display with 8051	Day #20	Feedback and Final Assessment

Course Coordinator

S.C. Agrawal, PTO
NIELIT Gorakhpur
Email: scagrawal@nielit.gov.in
Mobile Number: 8317093881

Sh. D.K. Tripathi, STO
NIELIT Gorakhpur,
Email: dkt@nielit.gov.in
Mobile Number: 8317093884

CLICK HERE TO REGISTER