

National Institute of Electronics & Information Technology Gorakhpur - Extension Centre Lucknow



(Ministry of Electronics and Information Technology, Government of India) MMMUT Campus, Deoria Road, Gorakhpur-273010 http://www.nielit.gov.in/gorakhpur/

Embedded System Design

Course in Embedded System Design

4 Weeks In-Campus Course

Duration: - 4 Weeks (40 Hours)

Batch Size: 30

Medium of Instruction: Bilingual (English & Hindi)

Objective

To mold fresh electronics engineers and to up skill working engineers into High caliber Embedded System Designers by enhancing their knowledge and skills in various hardware and software design aspects of Embedded Systems. This course offers a range of topics of immediate relevance to industry and makes the students exactly suitable for industries engaged in Embedded System development.

(B.E.- B.Tech. pursuing or qualified in Electrical or Electronics or Instrumentation or Equivalent) or (3 Years Polytechnic OR Diploma pursuing or qualified in Electrical or Electronics or Instrumentation or Equivalent) or (O/A level qualified).

Eligibility

Candidate must have knowledge of Basic Electronics, Digital Electronics, Electrical Circuits and basics of C-Programming

Rs. 4720/- 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 offline classes.
- ✓ Instructor-led hands-on lab sessions.
- ✓ Content Access through e-Learning portal.
- ✓ Assessment and Certification

Methodology

Step-1: Read the course structure & course requirements carefully. **Step-2:** Visit the Registration portal (https://regn.nielityte.edu.in/)

Step-2: Visit the Registration portal (https://regn.nielitvte.edu.in/) 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.

How to Apply?



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Course Content

Day	Topic	Day	Topic	Day	Topic
Day #01	Introduction to Embedded Systems	Day #02	Classification of Embedded Systems, Architecture of Embedded Systems, Design issues of Embedded Systems	Day #03	Introduction to Microprocessor and Microcontrollers
Day #04	8-bit Microcontroller Architecture	Day #05	Introduction to Embedded C	Day #06	Microcontroller Programming using Embedded C
Day #07	Interfacing with LED & 7 segment display	Day #08	Interfacing of LCD display with Microcontroller	Day #09	Interfacing of Stepper Motor &DC Motor with Microcontroller
Day #10	Interfacing of A/D & D/A converter with Microcontroller	Day #11	Introduction to ARM Microcontrollers and Features	Day #12	ARM Microcontroller Architecture
Day #13	Driving RGB LED GPIO and 7 segment display	Day #14	Driving DC Motor thru PWM Signaling	Day #15	Interfacing 0f LPC 2138 with Graphics LCD
Day #16	Implementing CAN Protocol using LPC 1768	Day #17	Implementing Ethernet Protocol using LPC 1768	Day #18	Interfacing 0f LPC 2138 with RTC
Day #19	Introduction to RTOS	Day #20	Feedback and Final Assessment		

Course Coordinator

Sh. S.C. Agrawal (P.T.O.)

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Course Co-Coordinator

Sh. D.K. Tripathi (P.T.O.)

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CLICK HERE FOR REGISTRATION



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INDUSTRY CENTER OF EXCELLENCE















Cloud & Automation Academy



National Institute of Electronics & Information Technology (NIELIT), Gorakhpur, Uttar Pradesh

in association with





