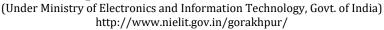


National Institute of Electronics & Information Technology

Gorakhpur – Extension Centre Lucknow





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)

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.



Eligibility

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

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.





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

(Under Ministry of Electronics and Information Technology, Govt. of India) http://www.nielit.gov.in/gorakhpur/



| Course Content | | | |
|----------------|---------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------|
| Day | Торіс | Day | Торіс |
| 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

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