SIEMENS CENTRE OF EXCELLENCE

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

Training Program Overview

Certification

6 Week Internship Program

All registered participants will be awarded certification from SCoE, NIT Kurukshetra.

Eligibility

Diploma, B.Tech. M.Tech (All branches)

Learning Objectives:

The trainee will learn to operate and understand the fundamental working principles of industrial robots, PLCs, and sensor interfacing.

Course structure

- ✓ Module (Robotics lab)

  Introduction to Robots and Robotics
  Jogging and Motion Types
  Program Creation and editing

- ✓ Module (Mechatronics lab)

  Introduction to Mechatronics
  Introduction to Factory Automation and Sensors
  Pneumatics in Mechatronics
  PLC Basics and Logic Simulation & PLC Programming

- ✓ Module (Process Instrumentation lab)

  Familiarization with Simatic Manager
  Measurement of distance
  Measurement of flow
  Measuement of pressure using Sitrans PDS III

- ✓ Module (IOT lab)

Familiarization with Development board Arduino Uno and Node MCU
To interface LED, Push Button, Buzzer, Relay, Bluetooth module (HC-05), Motor (DC, Servo, Stepper), LCD with Arduino Uno
Modules and Sensors Interfacing (IR, LDR, RGB LED) using Arduino Uno

Course Duration	6 Week (Start date: 9 June 2025)
Program fees	**3500/-(Inclusive GST)**
Program USP's	Opportunity to work with industry-grade robots, PLCs, and sensors.
Key take away	Hands on operating exposure on latest industrial machine and PLCs.
Batch Size	Minimum 10 Nos.
How to join	**Step 1:** Make payment (Refer below link for guidance on payment process- open link in browser) and share the receipt/screenshot of payment at ***scoe@nitkkr.ac.in*** https://in.docworkspace.com/d/sIK7Emfxa5ZjzrAY **Step 2:** Fill Registration form and upload the receipt/ screenshot of payment (link below) https://forms.gle/ppadTDZX9Su8GqeX9 **Step 3:** Acknowledge e-mail shall be sent by **scoe@nitkkr.ac.in** having your Enrolment/ UID details **Step 4:** Join the course

For any enquiry, please write to: scoe@nitkkr.ac.in or contact Kamal Bura (Trainer Industrial Robotics): 9729600298

(Brahmjit Singh)
Head SCoE