

Objective of the Short Term Course(STC)

- Short Term Course (STC) is devoted to the fundamental theory, recent developments.
- To familiarize with TIA portal v.15.1, MAPS machine, PLC s7-1200.
- STC provides an exposure to new areas of research and development.
- STC Provide good knowledge about PLC controls I/O With real time simulation.
- To create an opportunity for exchange of knowledge through a common platform.

Program Outcome:

- Participants will understand the MAPS concepts with implementation using TIA portal v.15.1 and PLC s7-1200.
- After successful completion of this course, participants will be able to understand the MAPS machine and PLC s7-1200.
- After successfully completion of this course participant able to design the mechatronics systems

Target Participants :

Faculty members of all Engineering Colleges and Polytechnic, Industry Professionals, Govt. officers, Scientists, Research Scholars. Any Students from UG, PG and Diploma.

Registration fee detail

(including GST)

On or Before February 21th, 2022

Course Fee : Rs. 500/-

For registration use below mention link or scan QR Code

<https://forms.gle/o4JwpAqigY3MMr8t8>



For any query contact
9417535469 / 6284957074

The e-certificate will be given and will be sent to the registered email id of the participants who attains course



One Week (Online) Short Term Course on Mechatronics

24th February 2022 to 28th February 2022

Organised by

**Centre of Excellence- Siemens
Workshop and Skill Development Centre
Punjab Engineering College
(Deemed to be University)
Chandigarh-160 012**

Chief Patron

Prof. Baldev Setia,
Director, Punjab Engineering College

Patron

Prof. Rajendra M. Belokar
Program Director CoE-Siemens
Head Workshop & Skill Development Centre

Course Coordinators

Dr. Poonam Saini
Dr. Sandeep Salodkar

Digital Session Host

Er. Davinder Singh
Er. Amninder Singh
Email:- coe.siemens.pec@pec.edu.in

About the CoE Siemens PEC

Established in 2019, this world-class skill development centre is dedicated to the areas of engineering, product development and advanced manufacturing technologies in the following domains

- **Automotive**
- **Aerospace**
- **Industrial Machinery**
- **Renewable Energy**
- **Internet of Things**

The Siemens Centre of Excellence (CoE) aims to train Engineering, Diploma students and faculty on world-class Siemens Equipment and Software. The CoE provides training by Siemens-certified training partners.

Objectives of CoE

- Establish industry partnerships to guide, support, and validate industry relevant learning activities
- Assist exploratory research projects to foster relevant industry innovate
- Assist integration of technology into college curricula
- Facilitate the pursuit of career opportunities to interact with research expert to learn from their experience the possible are of research.
- Enable technology adoption by industry

List of Labs at CoE

- | | |
|------------------------------------|---|
| •Automation Lab | •Process Instrumentation Lab |
| •Product Design and Validation Lab | •CNC & NC Programing Lab |
| •Advance Manufacturing Lab | •Metrology Lab |
| •Test and Optimization Lab | •Renewable Lab |
| •Robotics Lab | •Electrical andEnergy Energy Saving Lab |
| •CNC Machine Lab | •Mechatronics Lab |
| •Rapid Prototyping Lab | •Internet of Things (IOT) Lab |

STC Session will contain the expert lecture followed by the Siemens Lab session

The Expert form the industry as well as from the leading academic institution will deliver their talk on digital manufacturing.

Major course content

- Digital Circuit and Control Devices, Control System
- Microcontroller
- Industrial Robots
- Design of Mechatronic Systems
- MEMS (Micro Electro Mechanical System)
- Sensor and Actuator
- Artificial Intelligence
- Digital Signal Processing
- Embedded System Design and Automation

ADVISORY COMMITTEE

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