

Sant Longowal Institute of Engineering & Technology

Longowal -148106, Dist. Sangrur (Pb.)

Deemed to be University

Under Ministry of Education, Government of India



Self Sponsored Course

Short Term Course (STC)

On

Robotics and Automation-2021

(July 26-30, 2021)

Organized by
Department of Mechanical Engineering,
SLIET, Longowal

Course Coordinator

Dr. Sunil Kumar
Assistant Professor

Introduction:

The progress in robotics and Automation is massive and wide spread for industrial automation to defend Industry 4.0. The Government of India has given more & more attention towards the upcoming research & innovation to develop the indigenous technology and robotics and Automation is one of the key identified area. These fields contribute significantly on future autonomy by using intelligent systems in industry and society with less involvement of human being in Manufacturing and day to day life. The objective of the STC is to develop an awareness about the requirement of an interdisciplinary attitude and experience to meet the future demands.

Course Contents:

The STC is focused to discuss various aspects of Robotics and Automatiuon. Following important topics will be covered in this program.

- Introduction to Robotics
- Kinematics in Robotics
- Dynamics in Robotics
- Forward and Inverse kinematics using a software (Robo Analyser/MATLAB)
- Sensors and Actuation Systems in Robots
- Robot Control
- Programming of KUKA Welding Robot

- Control Hardware and Interfacing
- Control experiment using hardware or software.
- Robotics and Automation for Industry 4.0

Resource Persons:

Apart from faculty members of SLIET Longowal, experts from reputed Industry will conduct the expert lecture of the program.

Who can participate?

Faculty members, research scholars, Students belonging to engineering & applied sciences disciplines from Colleges and Universities can participate in the program. The program is also useful to industrial practitioners working at an appropriate level

How to Apply:

The interested persons from academia and Industrial practitioners are required to send the duly filled registration form on or before July 10th, 2021, through the google form link:



https://docs.google.com/forms/d/e/1FAIpQLSfdh5YU8OW4td76ymLFaM-LI67rQVDYqKKYi49F7p0QfQkEDA/viewform?usp=sf_link

Course fee/Registration Fee

- Registration Fee for Research Scholar/Students: Rs.500/
- Registration Fee for Faculty: Rs. 1000/-
- Registration Fee for Industrial Delegates: Rs. 1500/-

Details of the Bank Account:

Name:	Robotics and Automation 2021
Acc. No.:	5107162727
Bank and Branch:	Central Bank of India, Longowal
IFSC code:	CBIN0283105

The participants must deposit the registration fee by digital mode and attach the online transaction details as a .pdf/.jpg file in the google registration form.

Important Dates:

Last date for receipt of duly filled application form: **July 10th, 2021**

Finalization of the list of selected participants: **July 15th, 2020**

Last Date for receipt of confirmation participation (via email):

July 20th, 2020

Organizing Committee

Chief Patron: Prof. Shailendra Jain, Director

Patrons: Prof. A. S. Dhaliwal, Dean (R&C)
Prof. A. S. Arora, Dean (Acad.)

Chairman: Prof. A. S. Shahi, HOD (ME)

Coordinator: Dr. Sunil Kumar, (AP, ME)

Address for Communication

Program Coordinator (Robotics and Automation 2021)

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