

**Sant Longowal Institute of Engineering &  
Technology,  
Longowal -148106, Dist. Sangrur (Pb.)  
Deemed to be University  
under MHRD, Govt. of India**



*Short Term Training Programme (STTP)*

*On*

**Recent Trends in Mechatronics and Robotics  
(RTMR-2018)**

**(December 10-14, 2018)**

Organized by  
Department of Mechanical Engineering

**Sponsored by**

**TEQIP III, MHRD, Govt. of India**

**Course Coordinators**

**Dr. Sunil Kumar  
Dr. Vivek Kumar**

Department of Mechanical Engineering,  
SLIET Longowal

## **Introduction:**

Mechatronics and Robotics is an energizing and emerging, multi-disciplinary field of engineering that incorporates a combination of system engineering, mechanical engineering, electrical engineering, control engineering and computer engineering. Innovation in the mechatronics plays an important role in the development of any nation. Further, Mechatronics and robotics are becoming prominent in automation and process control applications. The STTP throws light on thought-provoking topics and recent research in the field of Mechanical, Automation, Robotics, Control Systems and many more. The program also aims to give an exposure to various modeling and simulation tools for the analysis of such systems. This program helps to identify future research needs in this emerging field.

## **Course Objectives:**

The main objective of the course is to enable the participants to the state-of-art technology in Mechatronics and Robotics further enabling them to take up challenging assignment in future and spread the learning to the peers and creating professional environment. Interdisciplinary in the nature, the course will enrich participants with necessary inputs

in all areas, starting from fundamentals and then in the modeling and ending in simulation.

## **Course Contents:**

The STTP is focused to discuss various aspects of mechatronics and robotics. Few important topics that will be covered in this programme.

- Introduction to Mechatronics and robotics
- Robotics
- Modeling & Simulation of Engineering Systems
- Artificial Intelligence
- Biomedical Engineering.
- Electromagnetic Devices
- Condition Monitoring, Fault Diagnosis and Signal Processing

## **Resource Persons:**

Apart from faculty members of SLIET Longowal, experts from IIT, NIT, DTU, etc. and Industries of national repute will conduct the theory & practical sessions of the programme.

## **Who can participate?**

Faculty members, research scholars belonging to engineering & applied sciences disciplines from AICTE recognized Colleges and Universities can

participate in the programme. The programme is also useful to industrial practitioners working at appropriate level involved in R & D and strategic engineering decision making.

### How to Apply:

The interested faculty members from academia and Industrial practitioners are required to send the duly filled registration form with registration fee in form of DD in favor of RTMR-2018, SLIET, Longowal on or before November 25, 2018. However, an advance copy of the application may be sent to the organizers through e-mail.

### Course fee/Registration Fee (Nonrefundable)

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

Boarding, lodging arrangements will be made to accommodate participants on twin sharing basis at the Faculty Guest House and Transit Guest Houses. Meals will be arranged at Faculty Guest House for all the participants. No TA will be provided to the participants for attending the programme.

### Important Dates:

Last date for receipt of duly filled application form

**November 25, 2018**

Finalization of list of selected participants

**November 31, 2018**

Last Date for receipt of confirmation participation  
(via email)

**\*December 05, 2018**

*\*Participation stands cancelled if confirmation email is not received by the specified date. Seats, if so vacant, will be offered to other eligible applicants.*

### Organizing Committee

Patron: Prof. S. K. Jain, Director  
Chairperson: Prof. Rajesh Kumar, HOD (ME)  
Coordinator: Dr. Sunil Kumar  
Dr. Vivek Kumar

### Address for Communication

#### Programme Coordinator (RTMR-2018)

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Sant Longowal Institute of Engineering and Technology,  
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### Registration Form

#### Recent Trends in Automation and Mechatronics (RTMR-2018)

**December 10-14, 2018**

Name: -----  
Academic qualification: -----  
Designation: -----  
Experience (years): -----  
Institution: -----  
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Address for correspondence:  
-----  
-----  
-----  
Telephone: -----  
Mobile: -----  
E-mail: -----  
Accommodation needed: Yes / No  
Enclosed crossed bank draft No. \_\_\_\_\_  
Dated \_\_\_\_\_ of \_\_\_\_\_ in favour of  
“RTMR-2018”, SLIET, Longowal.

Signature of the applicant

**Signature and Seal of Sponsoring Authority**