



One Week Short Term Training Program (STTP)

on

Kinematic Analysis and Synthesis of Robot Mechanisms

16 - 21 December 2019



Organized by:

Center for AI, IoT, and Robotics, Department of Mechanical Engineering
Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram
Chennai – 600127

ABOUT THE INSTITUTE

Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram) is an Institute of National Importance established in 2007, by the Ministry of Human Resource Development, Government of India, to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantage of Indian products in global markets. The institute is presently offering B.Tech. programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, and Smart Manufacturing, 5 Dual Degree programmes, 4 M.Tech Degree programmes, and inter-disciplinary Ph.D programmes in core and applied areas of engineering.

AIM & OBJECTIVE

The STTP is being organized by IIITDM Kancheepuram to enable participants to have hands-on experience in both theoretical and practical aspects of kinematic analysis and synthesis of various robot mechanisms using free & open software and hardware.

WHO CAN ATTEND

- UG/PG students
- Research scholars
- Faculties from academic institutions
- Scientists from R&D institutions
- Professionals from industries

RESOURCE PERSONS

- Faculty from IIITDM Kancheepuram
- Faculty from IIT Madras
- Experts from Industries

TOPICS

- Kinematic analysis – Introduction
- Kinematic synthesis
- Motion analysis of spatial mechanisms
- Jacobian & trajectory analysis and path generation
- Differential motion analysis
- Design and construction of robot manipulator in virtual environment
- Demonstration on integration of IoT equipment with robotic and automation systems
- Demonstration by industrial experts
- Hands-on sessions using robot kits
- Demonstration on robot assisted image processing

REGISTRATION FEE

Students & Ph.D Scholars	: Rs. 4130 (3500 + 18% GST)
Faculty / Academic Staff	: Rs. 6490 (5500 + 18% GST)
Participants-Industry/R&D Org.	: Rs. 8850 (7500 + 18% GST)

IMPORTANT DATES

Payment of Fee/Registration

Begins (Online)	: 15/10/2019
Ends (Online)	: 08/11/2019

Applicants are requested to pay the registration fee online through a link that would be provided in the institute website. Submission of registration form along with payment details shall also be completed online. Registration fee includes course material (soft copy), lunch and refreshments. Limited hostel/guest house accommodation will be provided inside the campus on first-come first-served basis on nominal cost.

For further information, submission of registration form and other updates, please visit www.iiitdm.ac.in

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