

Last date for registration 16 February 2026

INTRODUCTION

Design engineering is a key function of manufacturing. Machine designers encounter various challenges while visualizing and designing the product such as understanding the need, configuring kinematics, system motions, selection of critical elements, material, ensuring high reliability, ease of manufacturing and assembly at low cost. A successful designer, needs to have a complete knowledge on manufacturing activities from design to dispatch.

Skilled women work force are finding opportunities in manufacturing industry. To encourage and enable women to perceive their careers Indian Machine Tool Manufacturers' Association is conducting the training programmes as part of women empowerment initiative which is a primary objective of the Association and it's member companies.

FOCUS AREAS

- Strength of Materials, Engineering Mechanics and Machine Kinematics
- SOLIDWORKS – Hands-on CAD Training
- CAD Modelling and creating Manufacturing drawings
- Geometric Dimensioning & Tolerancing (GD&T)
- Conceptual design of a Special Purpose Machine
- Calculations for Force, Torque & Power
- Design of Milling Spindle for SPM
- Design of linear CNC Axis
- Selection of LM Guides ways & Ball Screws
- Design of Fixture
- Introduction to Hydraulics and Pneumatics
- Electric Motors: Application, Selection & Sizing
- Finite Element Methods FEM – What, Why, and How?
- Introduction to CNC machines and part programming
- Machining of sample components on CNC Machine
- Dimensional Metrology and Measuring
- Instruments
- Soft Skills for working environment homogeneity
- Speaking, writing, and presentation skills – To be a Smart Employee

PARTICIPATION FEE

Nil

For Registration Contact

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.

Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.