

**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 IMTMA 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

### Training @ IMTMA Design Institute, Bengaluru

- 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 hydraulic slide and servo slide
- Design of Pneumatic Systems
- Electric Motors: Application, Selection, Sizing & Optimization
- Finite Element Methods FEM – What, Why, and How?
- Soft Skills for working environment homogeneity
- Speaking, writing, and presentation skills – To be a Smart Employee
- Hands-on practice on conventional machines
- Introduction to CNC machines and part programming
- Metrology and Quality Control / Quality Assurance

## Training Methodology

### Candidates Selection criteria

- Women Graduate / Diploma Engineer from Mechanical, Electronics, Electrical and allied disciplines, passed out from Year 2023, 2024 & 2025 from across India
- Aggregate score preferably above 60% in Engineering
- Final selection based on performance in written test\* and personal interview conducted by IMTMA

### Unique Programme Features

- Experiential learning from Design and Manufacturing experts
- Hands-on training on machines and equipment at IMTMA Technology Centre
- Developing work culture and skill competency matching industry standards
- Placement support

### Evaluation and Certification criteria

- Periodical test and assignments
- Performance evaluation
- Record of attendance
- Students Presentation and interactivity skills in the class

## PARTICIPATION FEE

**Nil**

## Participant Profile

- Training programme is non-residential
- Participants will bear the expenses of travel and stay during the entire duration (2 months) of training at their own cost
- Maintain 100% attendance during the period of training
- Attend all the tests and assignments
- Adhere to the designated dress code and safety norms of IMTMA
- Maintain work discipline during the entire training
- Abide by all instructions of faculty and IMTMA
- Post training, open to work anywhere in India without geographical barrier
- Shall not misuse/ mishandle/damage the equipment, machineries, computers, CAD software during training

### 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.