

Last date for registration 02 May 2020

## INTRODUCTION

The course is structured with introduction to Design fundamentals and more focused on machine tool design. A complete Design of metal cutting Special Purpose Machines will be carried out from concept to finish. Pre-process activities like design input, conceptualization, machine specification, 3D modeling of parts, sub-assemblies and final assembly using popular design CAD tools and preparing the final manufacturing drawings in par with industry standards, Design for Accuracy, Design for Manufacturing and Design for Assembly will be addressed during the course. It will be highly interactive and hands on training session and covers entire 360° view on machine tool design

## FOCUS AREAS

- Machine design fundamentals
- Introduction to CNC machine tools
- Design of metal cutting Special Purpose Machine - Project
- Overall design concept, Machine specification
- Training on CAD Tool - Autocad and Solidworks
- Design of Spindles & work holding
- Design of CNC Axes & Hydraulic Slides
- Introduction to Electronics and Electrical for Mechanical
- Design of machine structure and analysis
- Design of coolant system and lubrication system
- Hands on Experience on FEA Tool
- Industry Visits

## KEY TAKE AWAYS

- Knowledge in Machine Design Basics
- Knowledge on design of machine elements
- Drafting of manufacturing drawing & assembly drawing
- Knowledge in machine design standards
- Hands on experience in Machine Tool design - SPM
- Knowledge in systematic design approach
- A Certificate of participation will be issued to participants

## Facilities

- Advanced CAD Laboratory & Digital Classroom
- Industry Experienced Faculty
- AUTOCAD, SOLIDWORKS, CREO, E Plan & HyperWorks
- Hands-on Training Session
- Complete Design Project as an exercise
- Hydraulic And Pneumatic Teaching Modules
- IMTMA Certification & Placements
- Real-time CNC Machine tools for demo
- Industry visit for orientation

## PARTICIPATION FEE

<b>Rs. 65000/-</b> +18% GST IMTMA Members / Micro Companies	<b>Rs. 75000/-</b> +18% GST IMTMA Non Members/ Others	<b>Rs. 50000/-</b> +18% GST Educational Institutions / Students	<b>Rs. 61750/-</b> +18% GST 5 % IMTMA Members / Micro Companies	<b>Rs. 71250/-</b> +18% GST 5 % IMTMA Non Members/ Others	<b>Rs. 58500/-</b> +18% GST 10 % IMTMA Members / Micro Companies	<b>Rs. 67500/-</b> +18% GST 10 % IMTMA Non Members/ Others
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### For Registration Contact

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### Contact Address

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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.