

INTRODUCTION

Programme is intended to develop the basic design skills which plays an important role as a foundation in developing right product. Fundamentals brings a scientific approach for making the design most workable and optimized design of any product. Making manufacturing drawings at par global standards providing all appropriate information through graphical language for all the parts to be manufactured, helps to helps to manufacture the parts without any errors.

In view of this, IMTMA is organizing 5 days comprehensive programme on **“Essential Skills for Machine Design Engineers - Level 1”** for all the design engineers. The programme will be held at IMTMA Design Institute, Technology centre, Bengaluru.

FOCUS AREAS

- Manufacturing drawing – What, Why and How from Manufacturing perspective
- Limits, Fits and Tolerances - what why and how from Manufacturing perspective
- Geometric Dimensioning and Tolerancing (GD&T) – What, Why and How from Manufacturing perspective
- Design of machine elements – Bearings, Rigid drive (Gear), Chain drive, Flexible drive (Belt) and Springs.
- Strength of Materials, Mechanics, and Kinematics – What Why and How in Machine Design

KEY TAKE AWAYS

- Knowledge on error free manufacturing drawings
- Knowledge on design of machine elements
- Knowledge on critical selection factors for mechanical systems
- Know on importance of dimensional tolerance.
- Knowledge on how to apply GD&T for manufacturing.
- Knowledge on basic science SOM, EM and KOM

PARTICIPATION FEE

Rs. 15000/-

+18% GST

**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 600/-

Overseas Participants

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

FACULTY

Mr. H V Rajashekara, Advisor & Head IMTMA Design Institute

Mr. Rajashekara HV graduated in mechanical engineering from BMS college Bangalore. He has over 37 years’ experience on Machine design and development from HMT Bangalore and Johnson Electric Group, Hongkong. In addition, he has 10+ years’ experience from Training domain at IMTMA.

Establishment of Design institute and carryout the design series programmes for fresh engineers to make them industry ready in both mechanical & electrical stream. Also heading Knowledge Management, Green manufacturing, Six Sigma and Design Clinic.

He developed various machine tools both general and SPM for defence, auto companies, mini All electric Plastic Injection machines, Flexible PCB manufacturing Machines, Automatic Optical Inspection Machines and Modular airless Linear Actuators. Desk top machines, VMC30 and Eco line parts manufacturing platform

Mr. Ganapathi K N, Advisor - IMTMA

Is presently working as Advisor at IMTMA, having 16 years of industrial and 16 years of academic and training experience. He is a mechanical engineer with post-graduate in metal casting science and engineering. Prior to IMTMA, Ganapathi has worked at various capacities in manufacturing companies. He has a thorough knowledge of Materials, Metallurgy, Metal casting and heat treatment processes.

Mr. Preetham B M -Assistant Director (Training) - IMTMA

He is having over 24+ years of experience in the industry, in the field of manufacturing of precision components for Nuclear, Aerospace & Automation industry. He has acquired expertise in the application and use of GD&T principles in precision manufacturing of components. Prior to working at IMTMA, he has worked at Avasarala Technologies Limited, in the field of machining the precision components using CNC machines.

Mr. M A Khallaq

Mr. Khallaq has over 3 decades of expertise in Machine Design and fixturing. An ex-HMT as Dy General Manager, served the R & D dept. He now runs his own Industry "XL CNC Machine" at Peenya. Manufactures of GPMs and SPMs.

Dr. Krishna Rao – Industrial expert and Professor

He has served in various positions in HMT Machine Tools Limited in Design Department for 24 years. And he is teaching experience of 17 years as Professor, Head and Principal for 8 years in various engineering colleges.

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.