

## INTRODUCTION

Manufacturing Industries are facing many challenges on product optimization during its design from their customers demand on reliability, performance, faster time to market and lowering cost yielding to erosion in profit margins. Enhancing product value in terms of functionality has never been more critical. Finite Element Method has become the mainstay of engineering design and development to accelerate new product development.

This program is intended to build competitive skills in FEM with more practical workshops on CAE tools and make them FEM experts.

Keeping this in view, **IMTMA** is organizing a five days online training on **“Product Optimization through Finite Element Method”** for working professionals aspiring to work as FEM experts in the manufacturing industry.

## FOCUS AREAS

- Introduction to FEA
- Basic solid modeling
- Advanced solid modeling
- Finite element method (FEM) – I
- Finite element method (FEM) – II
- Static structural analysis
- Advanced structural analysis (dynamic and nonlinear)
- Advanced structural analysis
- Thermal analysis
- Generating the report of analysis

## KEY TAKE AWAYS

- Intensive knowledge in -
  - Basics of FEA/FEM
  - Hands-on knowledge of popular CAE tools
  - Full knowledge in Analysis and Optimization
- Capability to handle part analysis independently
- Complete readiness on FEA
- Confidence to take up FEA projects within the organization

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 9000/-**  
+18% GST

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

## PARTICIPANT PROFILE

Engineers in Design and R&D functions, new recruits from industry, fresh Mechanical engineers, M Tech Graduates.

## FACULTY

This programme will be conducted by **Dr. V Bharat and Mr. Rajashekara HV.**

Dr. V Bharat is a Mechanical engineer, with a post-graduation in CAD-CAM and has completed his PhD with a specialization in Powder metallurgy. He is currently working as Associate professor, with Global Academy of Technology, Bangalore. He has an overall academic experience of over 16 years. He has published several papers and conducted a number of workshops on Mechanical engineering related topics.

Mr. Rajashekara HV is an Advisor to IMTMA. He has 28 years’ experience on Design and Development of Metal cutting machines from various industry like M/s HMT Machine Tools, M/s Johnson Electric International Limited, HongKong and 7 years as Senior Director, IMTMA Design Institute. He has overall experience of 35 Years from both shop floor and training.

### For Registration Contact

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