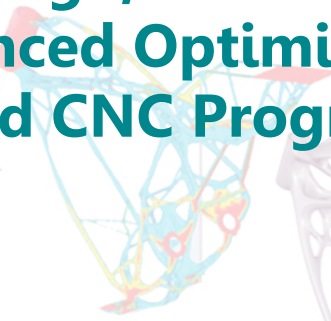


One Week Workshop on Design, Manufacturing and Advanced Optimization Tools

Two Weeks Workshop on Design, Manufacturing, Advanced Optimization Tools and CNC Programming



26th May-2017 to 6th Jun-2017

Organized by

**Department of Mechanical Engineering
Institute of Infrastructure Technology
Research and Management (IITRAM)**

Near Khokhra Circle, Maninagar (East), Ahmedabad, Gujarat, India - 380026
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<http://www.iitram.ac.in>



About IITRAM

Institute of Infrastructure Technology Research and Management (IITRAM) has been established by the Government of Gujarat as an Autonomous University and has been mandated to bring about significant change in Engineering Education with respect to Technical and Managerial knowledge in the area of Infrastructure. The objective of this Institute is to serve as a Center of excellence in Research and Teaching in all areas pertaining to Infrastructure, and the Institute has a vision of acquiring a status of National importance in Infrastructure and related areas.

About the Mechanical Engineering Department

The Department of Mechanical Engineering at IITRAM, Ahmedabad started right after one year of the inception of campus in 2014 and has been offering B.Tech Mechanical Engineering, M.Tech (Mechanical Infrastructure) and Doctoral Programs. The students of all tiers have access to both expert faculty members in the department and institute supported industry engagement opportunities. The department has extensive laboratory and infrastructural facilities for teaching, training, research and development.

Registration:

Last Date of Registration :

24th May-2017

Online Registration on:

<http://iitram.ac.in/workshop>

Registration Amount :

10000 INR (For Industry Participants)

(To be paid online only)

2000 INR (For Faculty / Researchers)

(If registered for first week only)

3000 INR (For Faculty / Researchers)

(If registered for whole programme)

Objectives:

IITRAM, Ahmedabad invites delegates from academia and industry to be part of a one week workshop on Design, Manufacturing and Advanced Optimization Tools and two weeks workshop on Design, Manufacturing, Advanced Optimization Tools and CNC Programming. Design, Manufacturing and Advanced Optimization Tools find wide applications in various field including aerospace, automotive, mechanical, production and industrial engineering.

The main objective of this workshop is to create awareness among young researchers about the challenging and growing field Design and Manufacturing; to introduce Optimization tools, fundamental principles and wide range of their industrial applications. This workshop will cover a wide variety of topics within the machining of advanced materials, CAD and Advanced Optimization tools:

- To provides in depth analysis towards machining of difficult-to-machine materials; Understand questions associated with the machinability of these materials
- Show with experimental demonstrations the viability of the studied theory
- Basic and advanced concept of CAD, Application of Advanced CAD on modeling
- Multi-attribute decision making methods such as TOPSIS, AHP, PROMETHEE, SAW, WPM, MOORA, etc.
- Genetic algorithm (GA), Teaching-learning-based optimization (TLBO), Jaya algorithm
- During the second week of workshop: Basic and advanced concept of CNC Programming, Application of Siemens NX CAM Turning and Milling

Benefits of Attending the Workshop :

- Understanding Machining of difficult-to-machine problems
- Understanding Fundamentals and Advancements of CAD
- Understanding Fundamentals and Advancements of CNC Programming
- Advanced understanding of optimization tools
- An overview on commercial softwares used for analysis of Machining and Design.

Who Should Attend :

Faculty members of mechanical, design, production, aerospace, applied mechanics and industrial engineering. Doctoral and masters students of the respective departments. Participants from R&D institutions and industry.

Patrons:

Mr. Millind Torawane, IAS

Director General, IITRAM

Dr. A. U. Digaskar

Director, IITRAM

Dr. N. N. Bhuptani

Registrar, IITRAM

Course Coordinators:

Dr. Navneet Khanna

Assistant Professor, Dept. of Mech. Engineering, IITRAM

Dr. PL. Ramkumar

Assistant Professor, Dept. of Mech. Engineering, IITRAM

Dr. Kumar Abhishek

Assistant Professor, Dept. of Mech. Engineering, IITRAM

Experts:

The course content will be delivered by the renowned professionals from the academia and Industry.



Contact:

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