

TEQIP-III Sponsored
One Week
Online Short Term Course (e-STC)
on
Finite Element Method & Applications
28th Dec 20 – 1st Jan 21



In Association with



Chief Patron

Prof. Udaykumar R Yaragatti
Director, MNIT Jaipur

Patron

Prof. Murari Lal Mittal
HOD, ME

Convener

Dr. Dinesh Kumar
Associate Professor

Course Coordinators

Dr. Gulab Pamnani, Asst. Prof.
Dr. Naresh K Raghuwanshi, Asst. Prof.
Dr. Tapas Bajpai, Asst. Prof.

Organized by

Department of Mechanical Engineering
Malaviya National Institute of Technology Jaipur

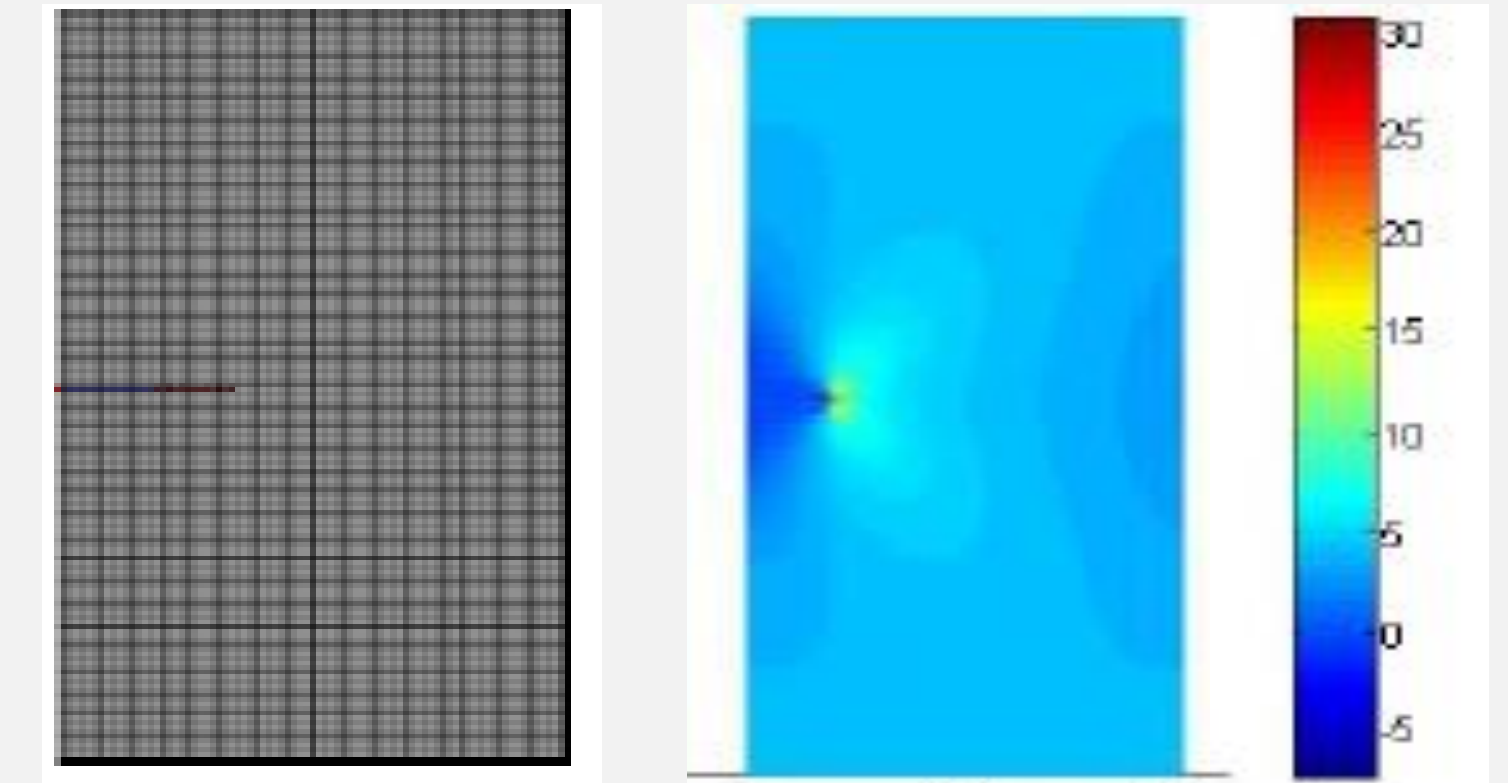
About Short Term Course

The Finite Element Method (FEM) / Finite Element Analysis (FEA) is a numerical and computer-based technique of solving a wide range of practical engineering problems that arise in different fields and which are otherwise difficult to solve analytically. The FEM associated with high computing facilities and available commercial packages such as **ABAQUS®** has replaced the traditional method of validation of a design or theory and has drastically reduced the time and money spent on physical testing. FEA is now a vital and irreplaceable tool in almost all engineering industries including automotive, aerospace, defence and many others.

At the end of the course, the participants are expected:

- To have fair understanding of: FEM and other numerical methods.
- To learn basics of linear finite element analysis procedures.
- To model and analyse structural, thermal and flow problems using FEM and ABAQUS.
- To apply computational and programming aspects of finite element analysis.

Benefits of Attending the Course



Persons who would attend the course should benefit in strengthening their background in the following areas:

- Understanding of the formulative steps involved in the finite element model development from the governing equations of engineering and applied science, particularly, structural, heat transfer and fluid flow problems.
- Insights into the relationship between the physical data (e.g., loads, boundary conditions, constitutive behaviour, etc.) and the finite element model of a physical problem.
- Ready to use the commercially available FEA Packages via. ABAQUS to analyze basic engineering problems.
- Knowledge to teach the finite element analysis procedures to others.

Faculty

The course faculty include speakers from IIT's, NIT's, CFTI's and other reputed institutions.

Course Fee & Payments

1. **MNIT Jaipur participants:** ₹100/- (including GST)
2. **Participants from other institutes and industries**
 - ❑ **Research Scholars:** ₹250/- (including GST)
 - ❑ **Faculty:** ₹500 /- (including GST)
 - ❑ **Industry Participants:** ₹1000/- (including GST)

Note: E-Certificate will be provided to all the participants.

Payment Mode: NEFT/IMPS only

Account Details: Registrar, MNIT, Jaipur (TEQIP-Phase III), A/C No. 36875887782, IFSC Code – SBIN0015921, State Bank of India, MNIT Jaipur Campus

Important dates

Last date for receiving registration fee:

26.12.2020

Intimation of selection to the participants:

27.12.2020

About MNIT Jaipur



Malaviya National Institute of Technology Jaipur (Deemed University) is one of the premier NITs, designated with the status of "Institute of National Importance" by MHRD. The institute was established in 1963, and its campus spreads over 325 acres of lush green area in the central location of Jaipur city. The institute offers undergraduate and postgraduate courses (B.Tech., M.Tech. /MBA / M.Sc. & Ph.D.) to about 4500 students, in leading fields of engineering, technology, architecture, management & sciences. Through the internationally renowned faculty, laboratories with state of art equipment and excellent infrastructure, the institute is actively engaged in research, consultancy and developmental activities, besides imparting regular teaching. MNIT Jaipur is ranked at 35th position in NIRF 2020 Ranking.

About Mechanical Engineering Department

The Department is one of the oldest departments of the institute, offering a fine blend of experience and innovation in teaching. Presently, offering undergraduate in Mechanical Engineering and post-graduate studies in Design Engineering, Thermal Engineering, Production Engineering and Industrial Engineering. The department is home to over 100 research scholars, pursuing Ph.D. in various fields of Mechanical Engineering. The department provides a life-long learning experience, through its state of art laboratories, vast pool of courses, and industry orientation.

Registration Link:

<https://tinyurl.com/y3g3ktf2>



Address for Correspondence

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