

ABOUT FDP

Aligning with the vision of AICTE Training & Learning Academy (ATAL) to plan and help in imparting technical quality education in the country, this Online FDP intends to provide an uncommon and engineering platform for the participants to gather ideas and opportunities from a diversified set of applications of solid mechanics, fluid mechanics and heat transfer.

OBJECTIVES

Primary objective of the programme is to provide exposure to lesser known or non-conventional applications and research problems related complex loading and boundary conditions that will not solved by analytical methods. Finite element method (FEM) is a very popular numerical method and has wide applications such as off shore structures, automobile industry, mechanical / civil / chemical engineering.

As an outcome of the programme, the participants will be able to identify several possible research areas and specific problems that needs to be worked upon for the overall growth of domain as well as society.



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AICTE ATAL ONLINE FDP

Finite Element Method

Applications in
Solid Mechanics, Fluid
Mechanics and Heat Transfer

Sponsored by



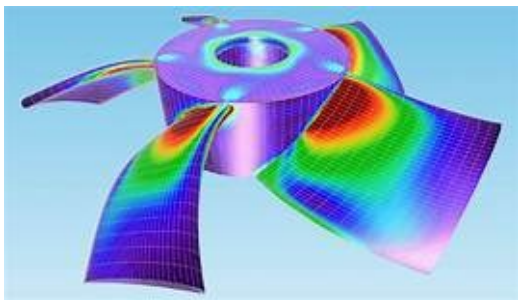
17 - 21 August, 2021

Organized by:



M.B.M. Engineering College

Faculty of Engineering & Architecture
Jai Narain Vyas University, Jodhpur- 342011



CONTENTS

A total of 14 expert sessions are planned under the programme. Each session in the programme is expected to include possible applications of FEM in the given scenario, ongoing work or current state of the art, major contributions and future directions. The sessions will be followed by short Q&A with the participants.

Major Topics covered in the FDP include:

- Basic concepts of FEM
- Variational and Weighted residual formulations
- Applications of FEM to heat transfer and fluid mechanics problems
- Applications of FEM to structural problems
- Applications of FEM to composite materials
- Applications of FEM to Vibrational problems
- Recent developments in Finite Element Techniques

REGISTRATION

Registration for the programme can be done through AICTE ATAL Portal only. No other modes of registration shall be accepted.

Below is the URL for signing up for FDP Registration on ATAL Portal:
<https://atalacademy.aicte-india.org/signup>

Limited Participation: The number of seats in the FDP shall be limited as per AICTE ATAL Policies.

To ensure proper participation, participants will be required to submit a permission letter from the Reporting Officer/Head of Department/Principal/Dean after confirmation of registration. Please note that there is no registration fee for the participants.

The FDP shall be conducted in Online Mode. More details about the platform will be shared with registered participants few days before the start of programme.

INTENDED AUDIENCE

The programme is intended for faculty members, professionals, research scientists, data enthusiasts and Research scholars from all over the country who have a fair educational background or prior experience in the basics of Numerical Methods and are looking for relevant research problems.

RESOURCE PERSONS

1. Prof. S.P. Harsha, IIT Roorkee
2. Prof. B.P. Patel, IIT Delhi
3. Dr. Poonam Kumari, IIT Guwahati
4. Dr. Shiv Dhayal Patel, IITDM Jabalpur
5. Dr. Harlal Singh Mali, MNIT Jaipur
6. Dr. Amar Patnaik, MNIT Jaipur
7. Prof. Tarun Kant, IIT Bombay
8. Dr. Sandeep Singh, IIT Indore
9. Dr. Emarti Kumari, MBM Jodhpur
10. Prof. J.N. Reddy, Texas A&M University, USA
11. Prof. S.V. Modak, IIT Delhi
12. Dr. Shobhana Singh, IIT Jodhpur
13. Dr. Rasalin Sahoo, IIT BHU
14. Dr. Om Prakash Singh, IIT BHU

* Due to the ongoing pandemic situation, the list of speakers shall be finalized only a few days before the FDP.

CONTACT DETAILS

For any queries, please contact -

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