



AICTE-NEQIP
sponsored Faculty
Development Program
on



Recent Trends in Computational and
Experimental Mechanics
December 11-15, 2017

Chief Patron

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About Mechanical Engineering Department, Tezpur University

The Department of Mechanical Engineering (ME) is one of the seven departments under School of Engineering of Tezpur University, which was established in the year, 2006. Presently, the department is offering B.Tech. M. Tech. (Specializations: Applied Mechanics and Thermal and Fluid Engineering), and PhD programme. Its B.Tech. and M.Tech. Programmes are approved by AICTE. The B.Tech program is also accredited by NBA. The department aims at producing skilled human resources for the industry and conducting cutting-edge research. The department has various laboratories with state of the art facilities, one central workshop with modern facilities. In addition to these, there are other common facilities of Computer Centre, Seminar Hall, Lecture Gallery, Video Conferencing room etc. for the students of School of Engineering.

About the programme

The proposed faculty development program (FDP) is aimed at dissemination of the latest information to the participants in order to enrich their knowledge in the recent trends in computational and experimental mechanics. The one-week FDP is supported by AICTE-NEQIP and the course is designed covering a wide range of topics of current teaching and research trends pertaining to mechanics of solids and fluids. The various topics that are expected to be covered in the course are as follows.

1. Introduction to finite element method (FEM)
2. Analysis of solid structure using FEM software package
3. Introduction to computational fluid dynamics (CFD)
4. Analysis of fluids using CFD package
5. Fracture mechanics
6. Mechanics of wind-power generation
7. Automobile Engineering
8. Mechanics of nanofluids
9. Optimization methods
10. Exposure to experimental facilities

Resource persons

Distinguished faculty from IIT Guwahati and other institutes including Tezpur University will join the course as resource persons for delivering lectures on current topics of teaching and research related to computational and experimental mechanics.

Registration and Accommodation

Faculty members from AICTE approved institutes are eligible for registration to this course without paying any registration fees. Participants from non AICTE institutions need to pay Registration fees of Rs. 1000/- by crossed demand draft in favour of Registrar, Tezpur University, payable at SBI, Tezpur University Branch (Branch Code: 14259). The number of participants is limited to 30. Hostel facility will be provided to a limited number of outstation candidates. No TA will be provided to the participants.

Important dates

Last date of registration: 25th November, 2017
Intimation of selected participants: 30th November, 2017

REGISTRATION FORM

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Name:

Designation:

Department:

Address of Institute:

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E-mail address:

Mobile No.:

Payment details (if applicable):

Bank: DD NO.:

Place: Date:

Signature of applicant

Recommendation of the Head of the Organization

Signature with official seal

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Organized by
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