About NIT Meghalaya:

The campus of NIT Meghalaya is located at Bijni Complex, Laitumkhrah at around 2 km from the Police Bazar, Shillong. The institute was established in the year 2010 with its permanent campus of about 450 acre is under construction at Shora, Cherrapunji. The dept. of Mechanical Engineering offers B. Tech, M. Tech in Fluid and Thermal Engineering and PhD programs with different specializations.

The scenic panorama of the valley, the breathtaking local view points, spectacular landscapes and lakes have made the city to one of the most popular destinations in the country. The nearest Umroi Airport, Shillong and LGBI Airport, Guwahati are respectively at distances of about 35 km and 130 km and the nearest Guwahati Railway Station is about 100 km from Shillong city. The temperature in the city during the period of workshop will be around 15-20°C.

Objective

This program is designed to address recent development in Computational Fluid Dynamics, use of computational technique for solution of industrial problem. The course will offer a unique interdisciplinary platform to the researchers to share and enhance research activity. This course will be beneficial for the research students, practicing engineers, academicians from Mechanical Engineering and other Engineering discipline working in the pertinent field.

TEQIP-III

Sponsored

Role of Computational Fluid Dynamics Technique for Solution of Industrial Problems

in collaboration with Siemens Digital Industry Software

(8th March – 12th March 2021)

Organized by:

Department of Mechanical Engineering

National Institute of Technology Meghalaya

Shillong-793003, Meghalaya, India

Eligibility:

The course is open for UG, PG students, Researchers, Faculty members of Engineering institutes, Engineers from industry and participants from Government and private organizations.

Registration:

All the candidates are requested to register for the workshop in the following link.

https://docs.google.com/forms/d/e/1FAIpQLSfoz0pXvj9Kxt8Ze4DEtiDCmAaxtihYICIr7bYPfqUmPJT97A/viewform?usp=sf_link

The certificate will be provided to the candidates after successful completion of the workshop.

Venue:

Lecture Hall, NIT Meghalaya for internal candidate. Google meet link will be shared for external candidate.

Committee Members

Patron: **Prof. B.B. Biswal**
Director, NIT Meghalaya

Coordinators:

Prof. H.C. Das, Professor, ME & Dean (FW)

Dr. B.K. Sarkar, Assistant Professor, ME

Organizing Secretary:

Dr. R.N. Mahapatra, Associate Professor & HOD, ME

Organizing Committee:

Dr. Koushik Das, Assistant Professor, ME

Dr. Nur Alam, Trainee Teacher, ME

Mr. Sambit Majumder, Trainee Teacher, ME

Mr. Pruthiviraj Nemalipuri, Ph.D. Scholar, ME

Mr. Vasujeet Singh, Ph.D. Scholar, ME

Advisory Committee:

Prof. G. Panda, Professor, EE & Dean (AA)

Prof. A. Bhattacharjee, Professor, PH & TEQIP Coordinator

Dr. G.K. Dutta, Associate Professor, CY & Dean (R&C)

Dr. C. Marthong, Associate Professor, CE &Dean (P&D)

Course Content

- Introduction to geometry creation and discretization in Star CCM+.
- CFD analysis of Toxic gas dispersion/Jet flow.
- CFD analysis of flow over a body and the drag coefficient calculation.
- CFD analysis of Conjugate heat transfer.
- Solving CFD problem through Matlab.
- CFD analysis of Micro Channel Heat Sink.

Resource Person:

Dr. Vivek Vitankar, Founder Director, FluiDimensions, Pune.

Dr. Souvik Chatterjee, Mathworks

Invited Speaker:

Mr. Dinesh Tallur, Lead PortfolioDevelopment for CFD Siemens Digital Industries Software