

TEQIP -III Sponsored One Week Short Term Course

On

Basics of Computational Fluid Dynamics [March 23-27, 2020]

Coordinators

Dr. Satish Kumar
Dr. M A Hassan
Dr. Dulari Hansdah



Organized by:

Department of Mechanical Engineering
National Institute of Technology
Jamshedpur, Jamshedpur



Organizing Committee

Patron: Prof. Karunesh Kumar Shukla
Director NIT, Jamshedpur
Chairperson: Prof. Mani Kant Paswan
HOD, MED, NIT Jamshedpur
Coordinators: Dr. Satish Kumar
Dr. M A Hassan
Dr. Dulari Hansdah

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Prof. Sanjay, MED, NIT Jamshedpur
Prof. Shalendra Kumar, MED, NIT Jamshedpur

Resource Persons

The speakers will be mainly from IITs, and NITs.

For
Students (UG/PG/Ph.D.), faculty members of
Science/Engineering, Industry personnel and
Scientists

Important dates

Registration/Payment Closes on: **14.03.2020**
Acceptance : **18.03.2020**

Notes:

- **Registration fee is non-refundable.**
- **No TA/DA will be provided for attending the course.**

Registration Form

Basics of Computational Fluid Dynamics [March 23-27, 2020]

Name:

Designation:

Department:

Institute:

Address:

Email:

Phone No:

Mobile No:

Qualification:

Area of specialization:

Payment Details:

Amount in Rs.....

Online Transaction ID

Date of Transaction.....

(Please enclose transaction slip)

Sponsored by.....

Name.....

Organization.....

Signature of applicant

Recommendation

(Signature of Head of the Institution/Head of the
Department with seal)

About Institute and Jamshedpur

National Institute of Technology Jamshedpur was originally founded as Regional Institute of Technology in 1960. Later upgraded to National Institute of Technology on 27th December 2002, with the status of Deemed University. It is now totally under the control of Ministry of Human Resources Development (MHRD), Government of India, New Delhi, Since April 2003. The institute offers B.Tech, M.Tech., Ph.D., M.C.A. and M.Sc. degrees in various disciplines of Engineering, Sciences, and Humanities.

About the Department

The Department of Mechanical Engineering offers an undergraduate program in Mechanical Engineering and postgraduate programs in Computer Integrated Design and Manufacturing, Thermal Engineering and Energy System Engineering and PhD program in various research areas. The department also runs three year certificate course in Mechanical Engineering for the employees of Tata Steel under Continuing Education Program. The Department has experienced faculty and well - established laboratories to meet the requirement of UG, PG and PhD students

Objective

The short term course will focus on fundamental principles that underlie current and anticipated developments and research scope in Computational methods and its industrial applications in Thermo-fluid Engineering.

This course will enable engineers and research specialists with knowledge of fluid mechanics and

scientific computing to develop a comprehensive understanding of numerical modeling of single and multiphase flows. The course will cover both Eulerian and Lagrangian particle-laden flow modeling techniques, and techniques for two-phase flows. Multiple examples of multiphase turbulence in real engineering systems will be explored.

Short term course topics:

- Navier-Stokes equations
- Geometry creation
- Generation of Mesh/grid and Discretization Techniques
- CFD modeling of multiphase flows
- Turbulence modeling
- Ultrasonic Guided Wave
- Applications of CFD flow of slurry, nanofluids, complex materials, combustion

Number of seats: 40

Accommodation: The participants may be provided with accommodation in institute **hostels depending on the availability and on a nominal payment basis as per actual on First-cum-First Serve Basis.** Accommodation can also be booked in nearby hotels directly or through prior information to organizers.

Registration Fee:

Students (UG/PG/Ph.D.):	Rs. 1000
Students (with residence facility):	Rs. 2000
Faculty members:	Rs. 2500
Industry persons/Scientists:	Rs. 3000

<https://forms.gle/zXf11aT1kF9GGQWg8>

RegistrTo avoid postal delay, it is advised to send scanned copy of duly signed registration form and transaction receipt by email.

- **If registration is done by online, then send scanned copy of transaction slip by email.**
- **Offline Registration form and scan copy of transaction slip can be sent on any email id given below:**
- satish.me@nitjsr.ac.in, hassan.me@nitjsr.ac.in, dhansdah@gmail.com

Registration fees includes: Program kit, lunch, & tea

Mode of payment:

Participants can make payment by depositing the registration fee online in Account No. 37963459091 (Current Account, RIDFM-2018) of SBI Bank NIT Jamshedpur (Branch Code: 001882; MICR Code: 831002004; IFSC Code: SBIN0001882).

Spot payment is may be admissible but only after prior approval from the organizers.

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