Thermal Systems Laboratory
Department of Mechanical Engineering
National Institute of Technology Rourkela
Rourkela 769008 (Odisha) India

FIVE DAY SHORT TERM COURSE

ON

LEARNING COMPUTATIONAL FLUID DYNAMICS WITH ANSYS FLUENT

(CFD-2026)

16-20 March 2026

REGISTRATION FORM

This form is to be filled online at https://tinyurl.com/cfd-2026

Note: NIT Rourkela students should NOT fill above online registration form. They need to get in touch with Dr Manoj Moharana, ME-118, Mechanical Engineering, in person to register for this short-term course. The hard-copy registration form is available at the end of this document file.

For any difficulty, please contact us at

+91 7008111684 (call & WhatsApp) or cfd.nitrkl@gmail.com

Note:

(i) Incomplete registration form/ without screenshot of course fee payment slip shall be rejected
(ii) Registration fee is non-refundable
(iii) No TA/DA will be provided for attending the course

Please also email the screenshot of the course fee payment slip to cfd.nitrkl@gmail.com after submitting the online registration form positively.

ONLINE PAYMENT OF COURSE FEE

Course fee can by paid via UPI using the following scanner

The course fee can also be paid via bank transfer to the account details given below

Account Name	Continuing Education, NIT Rourkela
Account Number	101 3895 1784
Account Type	Savings
Bank Name	State Bank of India (SBI)
Branch Name	NIT Rourkela Campus
Branch Code	002109
IFS Code	SBIN0002109
MICR Code	769002007
SWIFT Code	SBININBB137
PFMS Unique ID	NIT14
Pan No.	AAAJN0665L
GST No.	21AAAJN0665L1Z8
IE Code	AAAJN0665L
Bank AD Code	0009678 / 1800007

Registration fee details

Rs 1003/- (Online participation with digital participation certificate: National participants only)

Rs 1180/- (Online participation, physical participation certificate by post within India only)

Rs 1770/- (Off-line participation at NIT Rourkela)

US$ 50 (Online participation & digital participation certificate: For international participants)

******

REGISTRATION FORM

A five-day short-term course on

LEARNING COMPUTATIONAL FLUID DYNAMICS WITH ANSYS FLUENT

(CFD-2026)

16-20 March 2026, NIT Rourkela

Hybrid mode (Both online and offline)

Name: .....

Designation: .....

Department: .....

Organization: .....

Highest qualification: .....

Specialization: .....

Mailing Address: .....

.....

.....

Mobile: ..... Whatsapp No:.....

Email: .....

Interested to attend the course in **Online/Offline** mode

Accommodation Required: YES/NO (for offline mode)

Payment Details: Amount: Rs ...../-

Bank Transfer Details:

Date of bank transfer: ...../...../2026

Name of Bank: .....

Transaction reference No: .....

Note: A copy of the bank transfer slip is to be attached to this registration form

Signature of Applicant Date: ...../...../2026

Note:

- ❖ Incomplete registration form/ without bank transfer slip shall be rejected.
- ❖ Registration fee is non-refundable.
- ❖ No TA/DA will be provided for attending the course.

ORGANIZING COMMITTEE

Principal Co-ordinator: Dr. Manoj Kumar Moharana

IMPORTANT DATES

Last date for receipt of application: 15 March 2026

Only a limited number of participants will be selected on first-cum-first serve basis. Selected candidates will be informed by email immediately after receipt of the registration form and the course fee payment. Therefore, complete information for communication must be necessarily provided in the registration form.

ACCOMMODATION

Accommodation will be arranged for outside participants (who opted for offline mode) at the NIT guest house on prior request on standard tariff (to be paid by the participant) subject to room availability.

CONTACT

For the registration form or any other clarification, please contact

Dr. Manoj Kumar Moharana (Course coordinator)
Associate Professor
Department of Mechanical Engineering
National Institute of Technology Rourkela
Rourkela 769008 (Odisha)
Tel: +91-661-246-2533 (O)
Mob & Whatsapp: +91-7008111684
E-mail: moharanam@nitrkl.ac.in

A

FIVE DAY

SHORT TERM COURSE

ON

LEARNING COMPUTATIONAL FLUID DYNAMICS WITH ANSYS FLUENT

(CFD-2026)

16-20 March 2026

Principal Coordinator
Dr. Manoj Kumar Moharana

Department of Mechanical Engineering
National Institute of Technology Rourkela
Rourkela 769008 (Odisha)

ABOUT NIT ROURKELA

NIT Rourkela is an institute of national importance. It provides quality education in a diverse and multi-cultural environment. The institute's mission is to become an internationally acclaimed institution of higher learning that will serve as a source of knowledge and expertise for the society and be a preferred destination for undergraduate and graduate studies. The vision of the institute is to advance and spread knowledge in the area of science and technology leading to creation of wealth and welfare of humanity.

The Department of Mechanical Engineering is the largest among all of its departments at NIT Rourkela with about 180 students doing their master's degree and another 150 students are pursuing their doctoral program in different fields of cutting edge technology.

INTRODUCTION TO THE COURSE

The development of high speed digital computers has had a great impact on the way principles from sciences of fluid mechanics and heat transfer are applied to problems of design in modern engineering practice. Therefore, there is a growing demand to find graduating engineers with the basic skill of computational methods for heat transfer, mass transfer and fluid dynamics.

The objective of this course is to provide the participants an introduction to computational fluid dynamics (CFD) with the help of ANSYS Fluent commercial software which would help them to use this tool in reaearch activity. The specific objectives achieved through this short-term course are to provide a practical approach to solving fluid flow and/or heat transfer problems using ANSYS Fluent.

COURSE CONTENT

- Introduction to Computational Fluid Dynamics (CFD)
- Introduction to finite difference method (FDM) & finite volume method (FVM)
- Geometric modelling using Design modeller/ Spaceclaim
- Different meshing techniques in Ansys Fluent
- Solving simple problems using Ansys Fluent
- internal and external flows such as flat plate boundary layer, flow past cylinder & airfoil, circular hydraulic jump, flow in mini/microchannels etc.
- Battery thermal management
- Introduction to multiphase flow (VOF model)
- Introduction to user defined functions and macros
- Application of macros and UDFs

WHO SHOULD ATTEND?

This program is intended for faculty members of engineering institutes who is/are interested in exposing him/herself to the field of CFD as a beginner for the purpose of teaching and/or research. Students (B. Tech/ M.Tech/Ph.D) at any academic institute/research laboratory will also benefit by attending this course. This program will also be helpful to students planning to pursue an M.Tech/Ph. D. in fluid flow and heat transfer in the near future. Engineers from industries will also be benefitted by attending this course. The successful participants will receive a participation certificate.

Prerequisite for attending this course:

Fundamentals of fluid flow and heat transfer and interest to learn something new

COURSE FEE

National participants

Attending in online mode:

Rs 850 + GST 18% = Rs 1003/- (Only a digital copy of the certificate will be emailed)

Rs 1000 + GST 18% = Rs 1180/- (In addition to the digital copy of the certificate, a hard copy of the certificate will be provided via speed post with in India)

Attending in offline mode at NIT Rourkela:

Rs 1500 + GST 18% = Rs 1770/- (Hardcopy and softcopy participation certificates will be provided.)

US $ 50 (For international participants joining in online, will receive participation certificate by email)

PAYMENT

Registration fee must be paid (on or before 10 March 2026) through online bank transfer to the following bank account, and proof of the same must be provided to the course coordinator.

Bank account number: 10138951784

Account name (as per bank record): CONTINUING EDUCATION NIT ROURKELA

IFS Code: SBIN0002109

Name of Bank: State Bank of India

Bank Branch Address: NIT Campus, Rourkela, Odisha 769008 (India)

MICR No: 769002007

SWIFT Code: SBININBB137

Department of Mechanical Engineering
National Institute of Technology Rourkela
Rourkela 769008 (Odisha)

REGISTRATION FORM

(For present students of NIT Rourkela only)

Five-day short-term course on

LEARNING COMPUTATIONAL FLUID DYNAMICS WITH ANSYS FLUENT

16-20 March 2026

Name : _____

Roll No : _____

Semester : _____

Program : _____

Department : _____

Specialization : _____

Area of research (if any) : _____

Nature of research work : Analytical/ Experimental/ Computational

Whatsapp No. : _____

Mobile : _____

Email : _____

Date: ……/……/2026 Signature of Applicant

I herewith recommend the name of Mr/Ms/Mrs …… to attend this short term course and make him free from his regular research activity during this program duration. If it is found that he/she is not attending the program in full I may be informed about the same.

Name of the thesis supervisor/faculty advisor Signature of the thesis supervisor/faculty advisor

Note:

- Incomplete registration form will not be accepted.
- Students registered for this course must physically attend all program classes and on time.
- **Last date of registration is 11 March 2026.**
- **Participation certificate may be provided when attending the program in full and passing the course test**.

Please deposit this filled-in registration form in person at the office chamber (Room No: ME118) of

Dr. Manoj Kumar Moharana

Department of Mechanical Engineering

National Institute of Technology Rourkela

Rourkela 769008 (Odisha)

The best time for submission is from 11.00 AM to 01.00 PM and 4.30 PM to 05.30 PM. Alternatively, you can drop this filled-in registration form in Prof. Moharana's letterbox (in front of the HOD, ME office).