FIVE-DAY SHORT TERM COURSE

01-05 SEP 2025

FINITE ELEMENT METHOD AND COMPUTATIONAL FLUID DYNAMICS IN ENGINEERING APPLICATIONS

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

For details about this course please visit https://tinyurl.com/FEMCFD-2025

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

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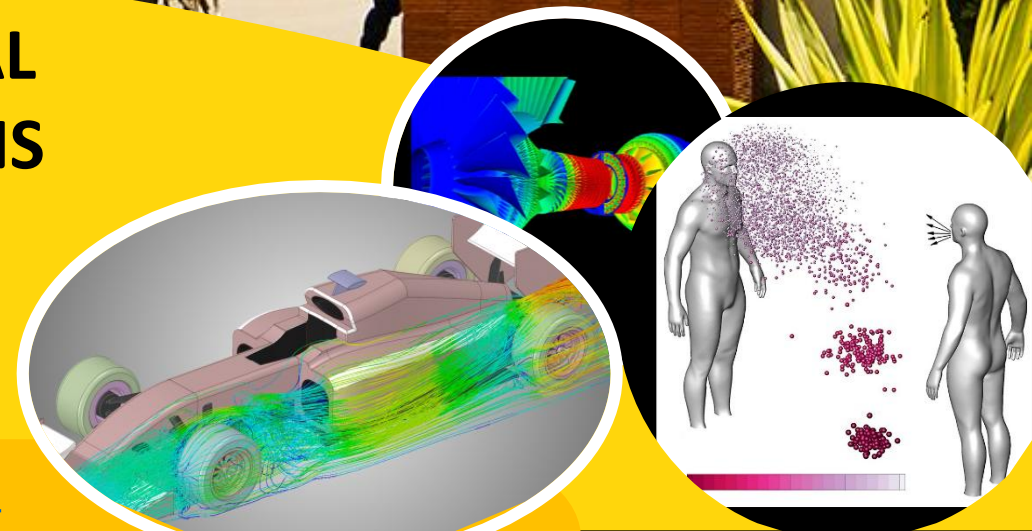
In hybrid mode (Both online & off-line)



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Principal Coordinator: Dr. Rabindra Kumar Behera

Co-Cordinators: Dr. Manoj Kumar Moharana

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THE World University Ranking by Subject (Engineering) 2021
RANK : 601-800

THE World University Ranking by Subject (Physical Sciences) 2021
RANK : 601-800

THE IMPACT Ranking 2021
RANK : 401-600

Qs World University-ASIA Rankings-2022
RANK : 271-280

QS Asian University 2021
RANK : 250

THE Emerging Economies 2021
RANK : 201–250

THE Asia University 2021
RANK : 201-250

About NIT Rourkela

Where everyone strives to attain their potential

NIT Rourkela is one of the premier national level institutions for technical education in India. It is an institute of national importance created under the act of the parliament of India. It provides quality education in a diverse and multi-cultural environment. The Institute aspires to be among the internationally highly acclaimed institution of higher learning that will serve as a source of knowledge and expertise for society and be a globally preferred destination for undergraduate and graduate studies.

NIRF Ranking 2021

- 20 (Engineering)
- 31 (Research)
- 41 (Overall)

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Course Content

This course will provide a practical insight to researchers pursuing master's or doctoral degree or any research activity. The main objective of this program is to impart practical knowledge essential for successfully conducting research and disseminate the same for the welfare of the society as a whole. The course content include Introduction to Finite Element Method (FEM), One-dimensional & Two-dimensional element modeling, In addition, Introduction to Computational Fluid Dynamics (CFD), Introduction to discretization methods, CFD Solution technique, Essentials of CFD solution analysis, Practical guidelines for CFD simulation and analysis, Some applications of CFD with examples etc. to name a few.

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Course Content

Other topics include but not limited to

- Introduction to Finite Element Method (FEM)
- One-dimensional element
- Truss, beam, frame
- Two-dimensional element
- Plane stress and plane strain
- Vibration of beam
- Buckling of column
- Introduction to Ansys FEM
- Introduction to Computational Fluid Dynamics (CFD)
- Fundamentals of CFD techniques
- Essentials of CFD solution analysis
- Practical guidelines for CFD simulation and analysis

For details about this course please visit https://tinyurl.com/FEMCFD-2025

Course registration link
https://tinyurl.com/FEMCFD2025

Contact us: femcfd2025@gmail.com, +91 7008111684 (Call & WhatsAp

ROURKELA
SMART CITY LTD.

Course Details

HYBRID MODE: BOTH ONLINE & OFF-LINE

The course will be organized in hybrid mode of both online and offline. The course consists of approx. 30-40 hours to be conducted during 09.00 AM to 05.00 PM (Indian Standard Time)

Dates: 01-05 September 2025

Course website link
https://tinyurl.com/FEMCFD-2025

Venue:

Department of Mechanical Engineering, NIT Rourkela

For course registration, Scan the QR code or visit:
https://tinyurl.com/register-femcfd2025

COURSE FEE

For Online registration

Scan the QR code or visit:
https://tinyurl.com/register-femcfd2025

Indian Nationals

Attending online:

- Rs 1180 (Rs 1000 + 18 % GST) *
- Rs 1357 (Rs 1000/- plus 18% GST)**

Attending in person:

- Rs 1770 (Rs 1500/- plus 18% GST, accommodation cost extra)

Other than Indian Nationals

- US$ 50/- (Online during 9.00 AM-5.00 PM Indian Standard Time)*

MODE OF COURSE FEE PAYMENT

pay through UPI scanner or bank transfer

UPI ID: 01389517841@sbi
Merchant Name:
Continuing Education NIT

For payment through UPI use above scanner or UPI ID

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

For payment through bank transfer use above information

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01-05 SEPTEMBER 2025

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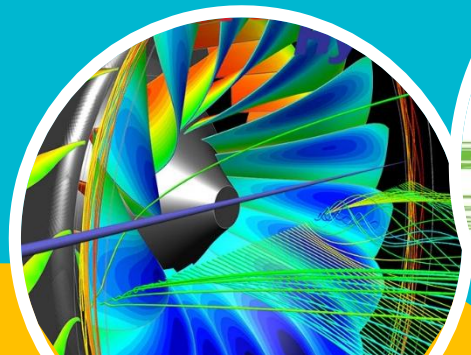

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