



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

National Institute of Technology, Rourkela is an institute of national importance created under the act of parliament. With different inclusive initiatives and the introduction of a standardized education policy, over the years, the Institute's graduates have been great performers at professional fronts in India and abroad. With the focus on teaching and learning across departmental boundaries, the mix-technology and management skills, NITians have been valuable assets to our country.

DEPARTMENT OF INDUSTRIAL DESIGN

Department of Industrial Design at National Institute of Technology Rourkela was established in 2010 to flourish in the emerging areas of design fields. NIT Rourkela provides quality education in a diverse and multi-cultural environment. The mission of the institute 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.

ABOUT THE 5 DAY COURSE

This Course on Design, Prototyping and Advanced Manufacturing is created with the objective of enhancing student understanding of modern product development processes and industry-oriented manufacturing practices. The program covered key aspects such as design thinking, concept development, CAD modeling, rapid prototyping techniques, 3D printing, CNC machining, and advanced manufacturing systems. Participants were introduced to the complete workflow from idea generation innovation, realization, emphasizing industry relevance.

IMPORTANT DATES

- Course Date
25 - 29 MAY 2026
- Registration Deadline
08 - 22 MAY 2026

VENUE

- By Road** - Rourkela is well connected by State Highway no. 10 and National Highway no. 23. It connects to the cities like Ranchi, Raipur, Sambalpur, Bhubaneswar etc.
- By Rail** - Rourkela railway station is 7 km away from the NIT campus. The Howrah-Mumbai line and Ranchi-Bhubaneswar line passes through this city.
- By Air** - The airports near to Rourkela are Jharsuguda, Ranchi, Bhubaneswar, Raipur and Kolkata.

CONTACT DETAILS

- Prof. Ashish Shukla
Coordinator
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NIT Rourkela
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- +91 82696 16386

5 DAY SHORT TERM COURSE ON

DESIGN, PROTOTYPING AND ADVANCE MANUFACTURING

25 - 29 MAY 2026

Hybrid Mode

ORGANISED BY

DEPT. OF INDUSTRIAL DESIGN

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

Expert Sessions on Industry-Oriented Design Practices

Hands-on Exposure to Prototyping and Advanced Manufacturing Tools

★ KEY HIGHLIGHTS ★

- INDUSTRY EXPERTS
- HANDS-ON SESSIONS
- ADVANCED TOOLS
- PRACTICAL LEARNING
- CERTIFICATE OF PARTICIPATION

WORKSHOP SCHEDULE

DAY 1		· Introduction, Inauguration, overview of product design process, design thinking methodology, problem identification, idea generation, user-centered design approach
DAY 2		· Introduction to CAD tools, 2D drafting, 3D modeling techniques, design visualization, concept development using digital platforms
DAY 3		· Basics of rapid prototyping, additive manufacturing concepts, 3D printing technologies, material selection, live demonstration of prototype development
DAY 4		· Introduction to CNC machining, CAM integration, automation in manufacturing, flexible manufacturing systems, industrial applications and demonstrations
DAY 5		· Prototype testing, product refinement, manufacturability analysis, industry case studies, expert interaction, valedictory session and certificate distribution

MAJOR THEMES

- ✓ Design Thinking and Innovation
- ✓ Computer-Aided Design (CAD) and Digital Modeling
- ✓ Rapid Prototyping and 3D Printing
- ✓ CNC Machining and Advanced Manufacturing Processes
- ✓ Product Development from Concept to Realization

REGISTRATION DETAILS

The following registration fee is applicable.

- Student : 1200 INR
- Academician/ R&D Lab : 2000 INR
- Industrialist : 3000 INR

Participants need to pay accommodation and food charges as per the institute norm separately.

PAYMENT DETAILS

The bank details for payment are

- Name of the Account : Conference NIT Rourkela
- Account Number : 36734418111
- IFSC code : SBIN0002109
- Bank Name : State Bank of India
- Branch : SBI, NIT Campus, Rourkela
- Address : SBI, NIT Campus, Rourkela-769008, Odisha

SCAN & PAY (UPI)

UPIID: 2804180418@sbi



Merchant Name:
Conference NIT Rourkela

After the payment of Registration fees, all participants are requested to fill the scanned registration form available on the link <https://forms.gle/ZpfQgYFLRnBtutnm886>

REGISTRATION FORM



ORGANISING TEAM

- Patron**
Prof. K. Umamaheshwar Rao
Director, NIT Rourkela
- Program Chair**
Prof. BBVL Deepak
Department of Industrial Design, NIT Rourkela
- Coordinators**
Dr. Ashish Shukla
Department of Industrial Design, NIT Rourkela
- Dr. Rohit Kumar
Department of Industrial Design, NIT Rourkela
- Prof. Swapnil D Shinde
Department of Industrial Design, NIT Rourkela