

# Registration form

Interested participants are required to send the scan copy of the Registration Form, and Payment details to : [patraa@nitrkl.ac.in](mailto:patraa@nitrkl.ac.in)

Name: \_\_\_\_\_

Gender:  Male  Female

E-mail ID: \_\_\_\_\_

Contact No.: \_\_\_\_\_

Category:  Industry and R&D Personnel  
 Faculty  
 Research Scholar/students  
 Technical staff

Organization: \_\_\_\_\_

## Payment Details:

Rs. \_\_\_\_\_ Date of Transaction: \_\_\_\_/\_\_\_\_/\_\_\_\_

Transaction ID: \_\_\_\_\_

Signature of the Applicant: \_\_\_\_\_

## Payment Details

**CONTINUING EDUCATION, NIT  
ROURKELA**

Account Number : 10138951784

IFS Code : SBIN0002109

MICR Code : 769002007

Bank Name : State Bank of India

Branch Name : NIT Rourkela Campus

Complete Branch Address : NIT

Campus, Rourkela, Odisha - 769008

Merchant Name : CONTINUING EDUCATION NIT

UPI ID : 01389517841@sbi



## Contact

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# ABOUT NIT ROURKELA

**National Institute of Technology (NIT) Rourkela** was founded as Regional Engineering College, Rourkela, in 1961, and was declared as an institution of national importance by an Act of Parliament in 2007. The Institute provides quality education in a diverse and multi-cultural environment. The vision 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, along with a mission to advance and spread knowledge in the area of science and technology leading to creation of wealth and welfare of humanity.

NIT Rourkela has ranked 34<sup>th</sup>, 13<sup>th</sup>, and 30<sup>th</sup> in NIRF Overall, Engineering, and Research for the year 2025, respectively.



**NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA**  
**DEPARTMENT OF METALLURGICAL AND  
MATERIALS ENGINEERING**

*is organizing a*

**5-days Short Term course on  
High entropy alloys : A paradigm  
shift in Materials Engineering**

**ONLINE MODE**



**April 6-10, 2026**

*Coordinators*

**Prof. Anshuman Patra**

**Dept. of Metallurgical and Materials Engineering**

**Prof. Ajit Behera**

**Dept. of Metallurgical and Materials Engineering**

*Co-Coordinator*

**Prof. Manoj Masanta**

**Dept. of Mechanical Engineering**

**Venue**

**SEMINAR HALL**

**DEPT. OF METALLURGICAL AND MATERIALS ENGINEERING  
NIT Rourkela**

**9 AM onwards**

## Organizing committee

### PATRON

**PROF. K UMAMAHESHWAR RAO**  
DIRECTOR (NIT ROURKELA)

### CHAIRMAN

**PROF. DEBASIS CHAIRA**  
Dept. of Metallurgical and Materials  
Engineering, NIT Rourkela

### COORDINATORS

**PROF. ANSHUMAN PATRA**  
Dept. of Metallurgical and Materials  
Engineering, NIT Rourkela

### PROF. AJIT BEHERA

Dept. of Metallurgical and Materials  
Engineering, NIT Rourkela

### CO-COORDINATOR

**Prof. MANOJ MASANTA**  
Dept. of Mechanical Engineering, NIT Rourkela

## About Department of Metallurgical and Materials Engineering , NIT Rourkela

Department of Metallurgical and Materials Engineering Established in 1964. This Department has emerged as a powerhouse for academics, scientific research, and cutting-edge technologies. The department is actively involved in fundamental research in diversified fields like steel technology, advanced manufacturing processes, alloy designing, nanotechnology, composites, computational materials, and machine learning. The department attracts highly qualified faculties and bright students from the entire nation. At present, various research projects are being run in the department by external sponsoring agencies like the Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), TATA Steel, Steel Authority of India Ltd. (SAIL), Defence Research Development Organization (DRDO). The Metallurgical and Materials Engineering Department at the NIT Rourkela has a strong and gracious history of organizing technical national/international conferences, workshops, and short-term courses.

### About the Short-Term Course

The objective of the short-term course is to disseminate a comprehensive blueprint on the design and techno-commercial prospects of high entropy alloys. High entropy alloys exhibit immense potential in attaining extraordinary mechanical properties and thermal stability, accredited to their significant configurational entropy. However, the success of the development of a high entropy system depends on designing principles involving thermodynamic considerations, fabrication schedule, etc. The techno-commercial prospects of high entropy alloys will provide a guideline to comprehend the sustainability in long-term applications. Domain experts from industry, academics, and research laboratories will deliver their ideas in the short-term course. The short-term course will be beneficial for undergraduate and postgraduate students, research scholars working in related fields, and industry personnel.

### Resource Person

Expert Speakers from academia, R&D laboratories will deliver talk in the short-term course.

## Course Content

This short-term course will cover, but is not limited to, the following topics:

- Understanding the fundamental concept of high entropy alloys
- Designing principle: Thermodynamics and Computational considerations
- Processing strategies
- Various characterization techniques
- Concept on the structure-property relationship of high entropy alloys
- Application domains of high entropy alloys
- Evaluation of Techno-commercial aspects of high entropy alloys

## Important Guidelines

Faculty members, Research scholars, PG students, Industry personnel, Technical Staff- members of different academic institutes are eligible to apply for the short-term course.

**Registration Fee (Including 18 % GST):**

Research Scholars/Students/Technical Staff : **Rs. 590/-**

Faculties/Industry and R&D Personnel: **Rs. 1180/-**

- There is no registration fee for the participants from the host institute.
- Incomplete registration-form (without details of online transaction) will not be considered.
- Registration fee is non-refundable.
- E-Certificate will be provided for the candidates attending all the sessions.
- Online joining link(s) through Google-meet/MS-Team will be shared in due course.
- Last date of registration: **31<sup>st</sup> March 2026.**

### Registration Link

<https://forms.gle/GjbKxQsEaGn1rpWY8>

