



## ABOUT THE INSTITUTE

National Institute of Technology (NIT), Rourkela, was founded as Regional Engineering College, Rourkela, in 1961. It is a prestigious Institute with a reputation for excellence at both undergraduate and postgraduate levels, fostering the spirit of national integration among the students, close interaction with industry and a strong emphasis on basic and applied research. It has been consistently ranked within the TOP 20 engineering institutes for five consecutive years as per MHRD's NIRF Ranking, Govt. of India

Website: [www.nitrkl.ac.in](http://www.nitrkl.ac.in)

## About the Department

The Department of Civil Engineering Started its journey in 1961. Ever since the inception, it has been imparting quality education to undergraduate Students. The department presently fosters five PG courses. There are about a dozen laboratories with various research and testing facilities. The faculty consists of eminent specialists from diverse fields, and there is a commendable research ambience in the department.

### ORGANIZING COMMITTEE

#### Patron

Prof. K. Umamaheshwar Rao  
Hon. Director, NIT Rourkela

#### Chairman

Prof. S. P. Singh  
HOD, Department of Civil Engineering, NIT  
Rourkela

#### Coordinators

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Student Coordinators  
Jayashree Ojha

A 5-Day Short Term Course

On

**Emerging Trends in Environmental  
Engineering for Sustainable Development**

(Hybrid Mode)

24<sup>th</sup> June 2025 to 28<sup>th</sup> June 2025

By

**Prof. Kakoli Karar Paul**

&

**Prof. Maithili Mohanty**



**Department of Civil Engineering  
National Institute of Technology  
Rourkela 769008**



## ABOUT THE SHORT-TERM COURSE

The Short-Term Course, titled "**Emerging Trends in Environmental Engineering for Sustainable Development**", aims to bring together experts, researchers, academicians, and practitioners to discuss and exchange knowledge on the latest advancements and challenges in environmental engineering. This program is designed to address critical environmental issues through innovative approaches, fostering sustainable solutions that balance ecological preservation with societal needs.

## CONTENTS OF THE SHORT-TERM COURSE

The Short-Term Course titled "**Emerging Trends in Environmental Engineering for Sustainable Development**" will focus on key themes like climate change mitigation, water and wastewater treatment, air pollution control, and sustainable development. It equips participants with essential skills to tackle complex environmental challenges, develop innovative solutions, and enhance teamwork. By integrating conventional and emerging technologies, the course prepares attendees to address real-world environmental problems effectively. Topics to be covered can be broadly summarized as

- Water and Wastewater Treatment Technologies**
- Air Quality Management**
- Solid and Hazardous Waste Management**
- Climate Change and Sustainability**
- Soil and Groundwater Remediation**
- Carbon Capture, Storage, and Utilization (CCSU)**
- Environmental Monitoring and Modeling**
- Urban and Rural Environmental Challenges**
- Green Hydrogen Production and Applications**
- Sustainable Agriculture and Agroecology**
- Circular Economy and Resource Recovery**
- Emerging Topics in Environmental Technology**

## INTENDED ATTENDEES

Engineers from Government organizations/ industries, architects, urban planners, environment consultants and NGOs with interest in the theory, practice and policy of air, water & wastewater management. Participation in this short-term Course is open to faculty and students at recognized technical institutes, researchers from the research laboratory, engineers from industries and any other interested personnel. The successful participants will be given a participation certificate.

## CORRESPONDENCE

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## REGISTRATION

The participant can register in the google form

<https://forms.gle/jDN8tDP7ib8bEMP3A>

Registration Fee (Including 18% GST)

Employees from the Industry and R & D organizations	Rs. 5000/-
Faculty of Academic Institutions	Rs. 4000/-
Research scholars and students	Rs. 1000/-

Registration fee can be paid online via NEFT/RTGS/IMPS using the following information:

Name: CONTINUING EDUCATION NIT ROURKELA

A/C No.: 10138951784

Bank: State Bank of India

Branch: NIT Campus Rourkela

IFSC Code: SBIN0002109

## IMPORTANT DATES

Last date of receipt of application: 10<sup>th</sup> June 2025

Notifications of participants: 11<sup>th</sup> June 2025

Course duration: 24<sup>th</sup> June 2025 to 28<sup>th</sup> June 2025.