



ABOUT THE INSTITUTE

National Institute of Technology (NIT) Rourkela is an institution of national importance funded by the Ministry of Education, Government of India. It is one of the premier national level institutions for technical education in the country. The main objective of the institute is to produce quality engineers and scientists in graduate, postgraduate and doctoral levels in various branches of Engineering and Science. NIT Rourkela is ranked 601-800 in the world by the Times Higher Education World University Rankings of 2025 and 191 in Asia. In India, it was ranked 13 in engineering and 30 in research category by the National Institutional Ranking Framework (NIRF) in 2025.

For further information about the institute, please visit our website at 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 currently offers six postgraduate courses and houses around a dozen laboratories equipped with diverse 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. Suresh Prasad Singh
HoD, Department of Civil Engineering,
NIT Rourkela

Coordinator

Dr. Kishor Bhagwat
Assistant Professor
Department of Civil Engineering
NIT Rourkela

Tel.: (+91) 661 2462328

Mob.: (+91) 9970045703

E-mail: bhagwatk@nitrkl.ac.in /
kishorsbhagwat@gmail.com



A 5-Day Short-Term Course

on

**Building Information Modeling:
Fundamentals and Applications in the
AECO Industry**

(Hybrid Mode)

8th - 12th December 2025

By

Dr. Kishor Bhagwat

**Department of Civil Engineering
National Institute of Technology Rourkela
Odisha, India**



ABOUT THE SHORT-TERM COURSE

The short-term course titled "Building Information Modeling: Fundamentals and Applications in the AECO Industry" is designed to bring together experts, researchers, academicians, and industry practitioners to share and exchange knowledge on the fundamentals of Building Information Modeling (BIM) and its applications in the Architecture, Engineering, Construction, and Operations (AECO) industry. The program aims to address key challenges in construction project management by promoting innovative approaches and fostering the adoption of digital solutions.

CONTENTS OF THE SHORT-TERM COURSE

This short-term course will cover key topics including the need for BIM, its benefits, BIM dimensions, and maturity models. The course is designed to equip participants with essential skills to address construction project challenges, develop innovative solutions, and strengthen teamwork through dedicated hands-on practice sessions. By integrating both traditional methods and emerging technologies, the program prepares attendees to effectively tackle real-world problems in the AECO industry.

Topics to be covered can be broadly summarized as:

- Overview of Building Information Modeling,
- BIM Dimensions, LoD, Execution Plan, Roles and Responsibilities,
- BIM and the Project Lifecycle, BIM Applications in Sustainable Construction and Safety Management,
- Interoperability, Common Data Environment, Open BIM, and Digital Twin Technologies,
- BIM Tools, Standards, Maturity Models, and Adoption Status,
- **Engaging case studies and hands-on exercises utilizing BIM tools.**

WHO CAN ATTEND?

This short-term course is open to engineers from government organizations and industries, as well as architects interested in the theory and practice of BIM and its applications in the AECO industry. Faculty members and students from recognized technical institutes, researchers from research laboratories, and other interested professionals are also encouraged to participate.

All participants who successfully complete the course will be awarded a certificate of participation.

ACCOMMODATION

If you are attending in person and require accommodation at the institute guest house, please indicate your preference in the registration form. Accommodation will be allocated on a strictly first-come, first-served basis.

Apart from the institute guest house, numerous sophisticated hotels are available in Rourkela.

IMPORTANT DATES

Last date of registration:
15th November 2025

Course duration:
08th - 12th December 2025

REGISTRATION PROCESS

1. Pay registration fee
2. Fill and submit registration form

REGISTRATION FORM

Register using the Google Form via the provided link

<https://forms.gle/jQt5G431B6LHeSMU8>

REGISTRATION FEE (Including GST, Non-Refundable)

Industry, R&D, and Government Professionals	Online: INR 5000, Offline: INR 7000
Faculty of Academic Institutions	Online: INR 3000, Offline: INR 5000
Research Scholars and Students (Full-time)	Online: INR 1500, Offline: INR 2500

Pay the registration fee online using one of the following options:

1. NEFT/RTGS/IMPS using the following information:

Name: Continuing Education, NIT Rourkela

A/C No.: 10138951784

Bank: State Bank of India

Branch: NIT Rourkela Campus

IFS Code: SBIN0002109

2. UPI using the following information:

UPI ID: 01389517841@sbi

Merchant Name:

Continuing Education, NIT RKL

Note: After scanning the QR code for registration fee payment, please verify the UPI ID and merchant name before proceeding with the payment.

Scan for UPI payment

