

राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय  
National Institute of Technology  
Meghalaya

ONLINE SHORT-TERM COURSE  
on  
**RECENT ADVANCES IN  
CIVIL INFRASTRUCTURE  
DESIGN AND  
CONSTRUCTION**  
August 7 - 11, 2023



Organized by  
Department of Civil Engineering  
National Institute of Technology Meghalaya

### About NIT Meghalaya

The National Institute of Technology (NIT) Meghalaya is one among the thirty one NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Education, Government of India.

### About CE Department

Department of Civil Engineering began its session from July 2012. The Department offers B.Tech, M.Tech in Structural Engineering and PhD programs in all the specializations. The Department is well equipped with laboratories; computational facilities with latest numerical modeling software where our students are exposed to recent technologies Development.

### Broad Scope

The primary objective of the proposed online Short-Term Course (STC) is to foster a dynamic platform that encourages the exchange of cutting-edge ideas and research endeavors within the realms of civil infrastructure design and construction. Distinguished speakers hailing from both academia and industry will play a pivotal role.

### Target Audience

The audience will include Faculties, Industry Personnel, PhD scholars, students enrolled in M.Tech. and B.Tech., who are interested in pursuing research in Structural and Transportation Engineering. This course will be of value to students, researchers, faculties as well as Industry Executives.

## Mode

The course will be organized through online platform. The joining link will be shared with the participants, well in advance.

## Resource Persons

- Talks by eminent academicians from IIT, NIT and other eminent Institutes
- Talks by resource persons from industries

## Organizing Committee

### Patron

Prof. G. Panda, Director, NIT Meghalaya

### Convenor

Dr. N. Kotoky, Assistant Professor, CE

### Coordinator

Dr. P. Gautam, Assistant Professor, CE

### Organizing Committee

Faculties of CE Department

### Student Coordinators

Mr. Athul Nath MK, CE

Mr. Aakash Kumar, CE

## Thematic Areas

This STC aims to discuss various fundamental issues and perspectives in the design and construction of civil infrastructure systems, with a focus on the domains of Structural and Transportation Engineering.

The topics would include, but are not limited to:

- Innovative Materials for Sustainable Infrastructure Development
- Advanced Analysis and Design of Buildings and Bridges
- Resilience and Risk Analysis in Civil Engineering Projects
- Safety of Infrastructure against Natural Hazards
- Optimization Techniques for Efficient Infrastructure Design
- Advancements in Transportation Engineering and Road Safety Management
- Emerging Technologies for Construction of Sustainable Highways

## Certificate

Certificate will be provided to all the participants satisfying the attendance criteria.

## How to apply

Click [here](#) for registration

Last Date for Registration: 4/8/2023.

Selection Notification: 5/8/2023.

Registration will be considered on a first cum first serve basis.

**There is no registration fee.**

## Address for Communication

### Coordinator RAICIDC-2023

Department of Civil Engineering

National Institute of Technology

Meghalaya, Shillong-793003

**E-mail:** raicidc.nitm@gmail.com

For any further information/assistance you may contact following student coordinators:

Mr. Athul Nath MK (+91-9443000498)

Mr. Aakash Kumar (+91-8109466731)

RECENT ADVANCES IN CIVIL INFRASTRUCTURE DESIGN AND CONSTRUCTION

INTERNATIONAL SPEAKERS



**Dr. Chandrasekhar Putcha**  
Professor Emeritus  
California State University,  
Fullerton, USA  
**Topic:** Interdisciplinary  
Applications of Reliability



**Dr. Ahsana Parammal Vatteri**  
Postdoctoral Research Fellow  
University College London  
**Topic:** Resilience and recovery  
modelling of integrated school-  
road systems



**Ms. Lupamudra Sharma**  
Geotechnical Consultant  
Ramboll, Germany  
**Topic:** Offshore wind energy - A  
brief walk through.

NATIONAL SPEAKERS



**Dr. Rajan Choudhary**  
Professor  
IIT Guwahati  
**Topic:** Design Protocols and  
Advantages of OGFC Mixes for  
Heavy Rainfall Regions



**Dr. Pawan Kalla**  
Professor  
MNIT Jaipur  
**Topic:** Use of Waste as  
Construction and Building  
Material



**Dr. Arnab Banerjee**  
Assistant Professor  
IIT Delhi  
**Topic:** Metamaterials for  
resilient Infrastructures



**Dr. Nishant Sharma**  
Assistant Professor  
SRM University, AP  
**Topic:** Seismic Soil-Structure  
Interaction in Reinforced Concrete  
Buildings with Pile Foundations:  
Unraveling the Complexity



**Dr. Sulaem Musaddiq Laskar**  
Assistant Professor  
Netaji Subhas University of  
Technology, Delhi  
**Topic:** Structural Audit,  
Repairing and Strengthening of  
Structures



**Dr. Subhrajit Dutta**  
Assistant Professor  
NIT Silchar  
**Topic:** Role of Civil Engineers in  
Building Resilient Cities



**Dr. Pradeep Kumar Gautam**  
Assistant Professor  
NIT Meghalaya  
**Topic:** Recycling and Reuse of  
Construction and Demolition  
Waste to Construction and  
Building Materials.



### Course Schedule

#### Monday (07-Aug-23)

IST	Session	Topic	Joining
11:00	Inauguration		<a href="#">Click here</a>
11:30	Talk by Dr. Pawan Kalla	Use of Waste as Construction and Building Material	<a href="#">Click here</a>
15:00	Talk by Dr. Arnab Banerjee	Metamaterials for Resilient Infrastructures	<a href="#">Click here</a>

#### Tuesday (08-Aug-23)

	Session	Topic	Joining
9:30	Talk by Dr. Rajan Choudhary	Design Protocols and Advantages of OGFC Mixes for Heavy Rainfall Regions	<a href="#">Click here</a>
11:30	Talk by Dr. Chandrasekhar Putcha	Interdisciplinary Applications of Reliability	<a href="#">Click here</a>
15:00	Talk by Dr. Ahsana Parammal Vatteri	Resilience and Recovery Modelling of Integrated School-Road Systems	<a href="#">Click here</a>

#### Wednesday (09-Aug-23)

	Session	Topic	Joining
9:30	Talk by Dr. Pradeep Kumar Gautam	Recycling and Reuse of Construction and Demolition Waste to Construction and Building Materials	<a href="#">Click here</a>
11:30	Talk by Dr. Chandrasekhar Putcha	A New Method for Transportation Problems in Civil Engineering	<a href="#">Click here</a>

#### Thursday (10-Aug-23)

	Session	Topic	Joining
9:30	Talk by Dr. Nishant Sharma	Seismic Soil-Structure Interaction in Reinforced Concrete Buildings with Pile Foundations: Unraveling the Complexity	<a href="#">Click here</a>
11:30	Talk by Dr. Sulaem Musaddiq Laskar	Structural Audit, Repairing and Strengthening of Structures	<a href="#">Click here</a>
15:00	Talk by Ms. Lupamudra Sharma	A brief Walk-through Offshore Wind Energy Scenario in Germany	<a href="#">Click here</a>

#### Friday (11-Aug-23)

	Session	Topic	Joining
9:30	Talk by Dr. Subhrajit Dutta	Role of Civil Engineers in Building Resilient Cities	<a href="#">Click here</a>
11:30	Valedictory Session		<a href="#">Click here</a>