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 <u>here</u> 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)

ONLINE SHORT-TERM COURSE

ON



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



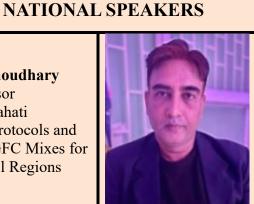
Dr. Ahsana Parammal Vatteri Postdoctoral Research Fellow University College London Topic: Resilience and recovery modelling of integrated schoolroad systems



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



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



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



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

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





AUGUST 7 -11, 2023

Course Schedule

Monday (07-Aug-23)

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

Tuesday (08-Aug-23)

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

Wednesday (09-Aug-23)

	Session	Торіс	Joining
9:30	Talk by Dr. Pradeep Kumar Gautam	Recycling and Reuse of Construction and Demolition Waste to Construction and Building Materials	Click here
11:30	Talk by Dr. Chandrasekhar Putcha	A New Method for Transportation Problems in Civil Engineering	Click here
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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	Click here
11:30	Talk by Dr. Sulaem Musaddiq Laskar	Structural Audit, Repairing and Strengthening of Structures	Click here
15:00	Talk by Ms. Lupamudra Sharma	A brief Walk-through Offshore Wind Energy Scenario in Germany	Click here

Friday (11-Aug-23)

	Session	Topic	Joining
9:30	Talk by Dr. Subhrajit Dutta	Role of Civil Engineers in Building Resilient Cities	Click here
11:30	Valedictory Session		Click here