Committee

Chief Patron	Prof. Dilip Kumar Baidya Director, NIT Silchar
Patrons	Prof. Rabul Hussain Laskar Dean (Research & Consultancy)
	Prof. A.K. Barbhuiya
	Prof. Parthajit Roy
Chairman	Prof. M. Ali Ahmed HOD, CED, NIT SIlchar

Advisory Committee

Prof. Parthasarathi Choudhury, CED, NITS

Prof. Dibakar Chakraborty, CED, NITS

Prof. Upendra Kumar, CED, NITS

Dr. Dillip Kumar Ghose, CED, NITS

Dr. Briti Sundar Sil, CED, NITS

Dr. Susmita Ghosh, CED, NITS

Dr. Prashanth J., CED, NITS

Dr. Kulkarni Vihangraj Vijaykumar, CED, NITS

Dr. Subhadeep Biswas, CED, NITS

Important Dates

Last date of registration : 15 November 2025

Workshop dates: 18 – 22 November, 2025

Registration

Registration fee for participants is INR 500/-. Register by using the google form link, given below.
Scan the QR code to pay the registration fee.

https://forms.gle/RAuT66yVJXFkUv527

Eligibility of Participation

This program is open to Faculty Members, Research Scholars, and M. Tech. /M.Sc. and B. Tech. Students of technical institutions, engineering colleges, polytechnics, universities and other recognized institutions. The number of external participants is limited to 25 in offline mode and 50 in online mode. Shortlisted candidate will be communicated through email. Certificate will be issued to all participants having attendance above 80%.

Accommodation and Travel

Please note that TA/DA or accommodation will not be provided to the participants. However, refreshments will be arranged for all participants during the workshop. Lunch will be arranged for external participants in the institute.

Convener

Dr. Jayshree Hazarika
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Co-Convener

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Anusandhan National Research Foundation

Anusandhan National Research Foundation

(ANRF) Govt. of India Funded

One Week Workshop

on

Recent Computational Advances in Water Resources Modelling and Management

(RCA-WRMM-2025)

18th to 22nd November, 2025

Organized by:

Civil Engineering Department
National Institute of Technology Silchar
Silchar, Pin-788010, Dist: Cachar, Assam, India

About Civil Engineering Department

The Department of Civil Engineering started its journey in 1977. It has been providing undergraduate students with high-quality education since its inception. Five PG courses are currently offered by the Department. In order to address local, national, and international economic and social concerns, the Department of Civil Engineering aims to establish a distinct identity by producing highly competent civil engineers in a variety of civil engineering sectors. In order to help the nation and human society as a whole, the Department of Civil Engineering aims to develop knowledge resources, teach and train young people in the newest technologies in the field, and instill in them human values, self-confidence, and the ability to think independently when solving a variety of civil engineering problems.

About NIT Silchar

Founded in 1967 as a Regional Engineering College in Assam, Nit Silchar is one of India's 31 National Institutes of Technology. In 2002 it was upgraded to the status of National Institute of Technology and was declared as an Institute of National Importance under the National Institutes of Technology Act, 2007. The climate of Silchar during Nov-Dec is pleasant and cool with a normal temperature of around 25°C. NIT Silchar is a fully residential institution. It has six engineering degree-offering branches and five non-engineering branches. In partnership with various academic departments, institutes, and reputable national and international industries, it organizes workshops, seminars, conferences, invited presentations, and other events.

About the Course

The workshop on **Recent Computational Advances in Water Resources Modelling and Management (RCA-WRMM-2025)** focuses on addressing the issues related to various sectors of water resources and latest progresses being made in the field of computational methods and its application in water resources modelling and management. Scientists and researchers have been utilizing computational methods for a very long time as a tool to solve complex natural phenomena. These methods help in developing rational and simple answers for complicated natural relationships. However, getting reliable explanations from these methods is still a challenging task. Over time, various novel computational methods have been formed, with the sole aim to improve the results with better explicability of the true characteristics of natural phenomena. With the advancements of technology, researchers are effectively developing new tools, models, and software with significant improvements in analysis and modeling studies. Moreover, researches are extensively relying on recent computational methods applying Machine Learning algorithms and Artificial Intelligence (AI), as they provide assurance of promising results. The workshop also seeks to explore the challenges contributed by changing climate in water resources related studies and the measures adopted to tackle those issues for achieving not only reliable but also consistent and sustainable solutions.

The workshop aims to bring together experts from academia, professionals, and researchers working in various fields of water resources engineering and management to exchange latest information on computational developments in modeling, analysis and simulation of water resources related issues. Participants will get exposure to the latest advances and gain insights into practical applications for further research and development.

Course Objectives

- To explore recent computational advances and ongoing researches in various fields of water resources viz. hydraulics, hydrology, hydrometeorology, hydro-climatology, hydrogeology and other relevant topics.
- To explore the use of artificial intelligence, its advantages and challenges in modeling, analysis and simulation of water resources related problems.
- To explore the effects of climate change in computational methods and climate resilient techniques implemented to mitigate those effects for achieving sustainable solutions.
- To explore the utilization of computational methods in solving real-life problems associated with water resources.
- To disseminate the knowledge of experts and researchers to a larger audience with a greater goal of building a computationally strong, vigilant and responsible community of water resources engineers and researchers.

REGISTRATION FORM

Anusandhan National Research Foundation(ANRF)
Govt. of India Funded Workshop on
Recent Computational Advances in Water Resources Modelling and Management (RCA-WRMM-2025)

18th to 22nd November 2025

1. Name (block letter) _____
2. Designation_____
3. Department _____
4. Organization _____
5. Address for communication _____

   _____

   _____

   _____PIN_____
6. Ph. No._____
7. Email _____
8. Qualification _____

Place:

Date:

Signature of the applicant

Anusandhan National Research Foundation (ANRF) Govt. of India Funded

One Week Workshop on

Recent Computational Advances in Water Resources Modelling and Management

(RCA-WRMM-2025)

18th to 22nd November, 2025

Organized by

Civil Engineering Department

National Institute of Technology Silchar

Venue: Second Floor Seminar Hall, Civil Engineering Department

Eminent Speakers

Prof. Arup Kumar Sarma
IIT Guwahati
Hydrodynamic Modelling

Prof. Manasa Ranjan Behera
IIT Bombay
Computational Hydrodynamics

Dr. Mrinmoy Majumder
NIT Agartala
Hydroinformatics

Dr. Mahesh Patel
NIT Jalandhar
AI and ML Applications in Water Resources

Dr. Vinnarasi R.
IIT Roorkee
Hydroclimatology

Dr. Tinesh Pathania
IIT (ISM) Dhanbad
Numerical Models for Groundwater Management

Dr. Mohit Prakash Mohanty
IIT Roorkee
Hydroclimatology, Disaster Risk Reduction, Multi-hazard Risk Management

Dr. Manish Pandey
IIT Kharagpur
Application of Computational Hydraulics in Sediment Transport and Bridge Scour

Dr. Bandita Barman
IIT (ISM) Dhanbad
Computational Hydraulics

Dr. Subramani Ravi
DHI (India)
Demonstration/Training on FEFLOW & MIKE software