



INTENDED AUDIENCE:

Engineers, Faculties and Scientists working in Civil Engineering, Environmental Engineering, Water Resources Engineering, Officers from Research Organizations, Environmental Engineering, Irrigation Engineering Departments, Consulting Companies, NGO's, as well as self-employed practitioners engaged in the analysis, design, planning, construction, operation, maintenance and management of water resources and environment would benefit from the proposed program. As participants are expected from all over India, this course would provide an excellent opportunity for the participants to interact with one another, learn the latest development in the computer application techniques in water resources and environmental engineering. At the end of the program the participants may be in a position to identify and select appropriate strategies for their local conditions and implement measures in various water resources management aspects.

COURSE OBJECTIVE:

The main objective of the proposed short term course is to make participants aware of the basics of the advanced technologies in flow modeling and the emerging software applications in water resources management. After the course, participants may get an overview of most of the advanced knowledge in software and flow modelling for water resources engineering and may be able to identify and adapt appropriate strategies.

COURSE CONTENTS:

The board outline of the course is

Flow modelling using Software's like MIKE-Flood, MIKE -II, CCHE2D, CES (Conveyance Estimating System), HEC-RAS, FLUENT-ANSYS, Remote Sensing and GIS applications, Artificial Neural Networks, and MATLAB Applications in (a) Surface water hydrology (b) Open Chanel hydraulics (c) Hydraulic structures (d) Ground water hydrology, Watershed management, Flow measurement techniques and flow modeling in water resources and environmental engineering, Computational Fluid Dynamics and Numerical methods in Water Resources Engineering, Reservoir Sedimentation, Climate Change, Water quality and quantity modelling

**A Short Term Course on
COMPUTER APPLICATION IN
WATER RESOURCES ENGINEERING**

(1st October -6th October 2018)



Coordinators

- K.K.Khatua**
- K.C.Patra**
- A.Kumar**
- S.N. Sahoo**



**Department of Civil Engineering
National Institute of Technology
Rourkela – 769 008**

ABOUT NIT ROURKELA:

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, a close interaction with industry and a strong emphasis on research, both basic and applied.

The city of Rourkela is a bustling industrial town, cosmopolitan by nature and is well connected to all parts of the country by road and rail. It is en-route Howrah-Mumbai main line of South-Eastern Railway. Nesting amidst greenery on all sides, NIT campus is approximately 7km from Rourkela railway station. The nearest airports are Ranchi, Kolkata and Bhubaneswar, which are well connected by trains.

REGISTRATION FEE:

Engineers/Scientists/
Faculty/officers Rs. 10,000/-

Post graduate/
research scholars Rs. 05,000/-

MODE OF PAYMENT:

Payment should be done in DD in favor of "Continuing Education, NIT Rourkela" payable at SBI, NIT Campus Branch. (Code: 2109)

ACCOMMODATION:

Accommodation will be provided in the south block and North block guest houses of NIT, Rourkela as per availability.

IMPORTANT DATES:

Last date of receipt: 14/09/2018

(Completed application form with Demand Draft)

Selection letters to be mailed: 17/09/2018

Course Commences on: 01/10/2018

CONTACTS:

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NOTE: Please mention on the envelope

"APPLICATION FOR TRAINING PROGRAM on "COMPUTER APPLICATION IN WATER RESOURCES ENGINEERING"

A Short Term Course on COMPUTER APPLICATION IN WATER RESOURCES ENGINEERING

(1st October -6th October 2018)

Registration Form

1. Name: _____

2. Sex (M/F): _____

3. Category: Research Scientists / Faculty / Field Engineers/ Industry

4. College / Organization name: _____

5. Qualification: _____

6. Address for Correspondence:

Phone/Mobile:

Email:

7. Accommodation Required: Yes/No

8. Bank Draft Details:

Amount _____ Draft No: _____

Drawn on _____

Date:

Place:

Signature of Participant
Forwarding remark (if required) of the Head of the Department / Institute/Signature (with seal)