

A Short Term Course on
**ADVANCES IN WATER
RESOURCES
ENGINEERING**

(7th May -12th May 2012)



Coordinators

K.K.Khatua

R. Jha

K.C.Patra



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National Institute of Technology
Rourkela – 769 008.

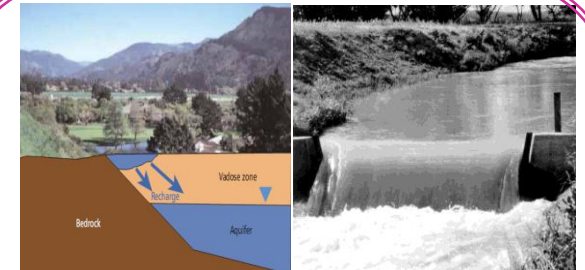
COURSE OBJECTIVE:

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

COURSE CONTENTS:

The board outline of the course is

- Flood frequency analysis
- Surface water hydrology
- Ground water hydrology
- Open chanel hydraulics
- Fluid instrumentations
- Computational fluid dynamics
- Numerical methods
- Hydraulic structures
- Artificial Neural Networks
- Remote sensing techniques
- Geographic Information Systems
- Watershed management
- Reservoir operation
- Reservoir sedimentation
- Genetic Algorithms
- Hydroinformatics
- Climate change



INTENDED AUDIENCE:

Engineers, Faculties and Scientists working in Water Resources Engineering areas, Officers from Research Organizations, 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 and discuss problems and solutions of mutual interest. 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.

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	8,000/-
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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. The room rent will be charged as per actual.

IMPORTANT DATES:

Last date of receipt: **20/04/2012**
(Completed application form with Demand Draft)
Selection letters to be mailed: **21/04/2012**
Course Commences on: **07/05/2012**

CONTACTS:

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NOTE : Please mention on the envelope
"APPLICATION FOR TRAINING PROGRAM
on Advances in Water Resources Engineering"

A Short Term Course on ADVANCES IN WATER RESOURCES ENGINEERING

7th May -12th May 2012

Registration Form

1. Name : _____
2. Sex (M/F): _____
3. Category: Faculty /Field Engineers/
Scientists/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)