ABOUT MANIT BHOPAL

Maulana Azad National Institute of Technology (MANIT) Bhopal, formerly known as Maulana Azad College of Technology (MACT) Bhopal was established in the year 1960 and subsequently upgraded to National Institute of Technology (NIT) in 2002. The institute is located in the heart of Bhopal City (the capital of Madhya Pradesh). Bhopal is well known worldwide as the city of lakes. It is well connected to various parts of the country by road, rail and air. The Institute is located at a distance of about 8 km from Bhopal railway station and 20 km from Raja Bhoj Airport.



ABOUT THE CENTRE & DEPARTMENT

The Department of Civil Engineering is one of the oldest department of the Institute started in 1960. It offers B.Tech degree and 7 M.Tech degree and PhD Degree. The Centre of Excellence in Water Management opened recently and offers an M.Tech. and a Ph.D. program. The Department and Centre have more than 40 faculty who are highly qualified and dedicated and strive to produce competent professionals who are abreast with the latest technology and equipped with enterprising skills necessary for a designer and a site engineer.

Registration

Participants are requested to fill out the registration form till **June 25, 2024**.

Click here to Register

- Research Scholars/ Students - ₹ 1000
- Faculty/ Academicians/ Scientists - ₹ 1500
- Foreign Deligates - $ 50

Who can attend?

- Professionals and officials from government departments, research organizations in environment, forests, water, PWD, irrigation, rural, agriculture, climate, etc.
- Faculty members, research scholars, scientists from universities/colleges, etc.
- National, state, and local level disaster management professionals.

AREA OF FOCUS

The major area of focus of this program are:

- Climate change and water resources
- Extreme events
- Disaster risk, reduction and management
- Agricultural and ecosystem resilience
- Application of Remote Sensing and GIS in Hydrology
- Hydrological Modelling
- Hands-on Projects, Software Training, and Group Exercises.

Course Coordinators

Dr. Vikas Poonia
Dr. Priyamitra Munoth
Prof. H. L. Tiwari

One Week Short Term Training Program

EXTREME HYDRO-METEOROLOGICAL EVENTS IN A CHANGING CLIMATE & APPLICATION OF RS & GIS

July 08th, 2024 to July 12th, 2024





Jointly Organized by

Centre of Excellence in Water Management
&
Department of Civil Engineering
Maulana Azad National Institute of Technology Bhopal
(MANIT Bhopal)

ABOUT THE PROGRAM

Climate variability and change could result in increased number of extreme events which can cause profound damage to the human well-being. India, with more than 1.2 billion population, has been devastatingly affected by extreme climatic events in the past. Traditional approaches mostly involve the univariate statistical and probabilistic analysis. However, climate processes are intricate and influenced by many interconnections, therefore, the role of different climate drivers in developing an extreme event must be analyzed. It is crucial that we understand the occurrence, and mechanism of extreme events and their role in augmenting disaster risk in this training program.

Use of remote sensing data and GIS became an integral part of any hydrological study. The automatic extraction of a river network/watershed characteristics from DEM using GIS is recognized as a viable technique. Hydrological models became powerful tools to assess the hydrological responses to LULC and other changes. Therefore, in this program the importance of Remote Sensing and GIS is also discussed.

Tentative Resource Persons

- Prof. P. L. Patel, Director, VNIT Nagpur
- Prof. Lixin Wang, Purdue University USA
- Prof. Manish Kumar Goyal, IIT Indore
- Dr. Srinidhi Jha, UKCEH , UK
- Dr. Ashutosh Sharma, IIT Roorkee
- Dr. S. M. Yadav, SVNIT Surat
- Dr. Ramakar Jha, NIT Patna
- Dr. Jew Das, NIT Warangal
- Dr. Somil Swarnkar, IISER Bhopal
- Prof. H. L. Tiwari, MANIT Bhopal
- Dr. Vikas Poonia, MANIT Bhopal
- Dr. Priyamitra Munoth, MANIT Bhopal

OBJECTIVES

The major objectives of this program are:

- Understand and discuss the possible impacts of extreme climatic events in context of sustainable development.
- Analyze what has been and can be done to minimize the impacts of extreme climatic events: adaptation and mitigation.
- Comprehend recent research findings on extreme events such as droughts, floods, etc.
- Understand the global risks and challenges due climate change induced disasters.
- To introduce the role of remote sensing and GIS for hydrological analysis.
- To introduce the concept of Hydrological Modelling.
- Encourage collaboration among stakeholders for collective action on Climate change and extreme events.

DETAILS FOR PAYMENT

Account Name: Director, MANIT, Bhopal
Account No.: 10020150107
IFSC Code: SBIN0001608
MICR Code: 462002014

Interested candidates can pay through online or a demand draft. A copy of the payment receipt with DD No. or Transaction No. needs to be uploaded at the time of registration.

Any Queries? Contact Us @

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Organizing Committee

PATRON

Prof. Karunesh Kumar Shukla
Director, MANIT Bhopal

CONVENERS

Prof. Vishnu Prasad (H.O.C)
Prof. Mukul Kulshrestha (H.O.D)
Centre of Excellence in Water Management
and
Department of Civil Engineering

COURSE COORDINATORS

Dr. Vikas Poonia
Dr. Priyamitra Munoth
Prof. H. L. Tiwari