

## ABOUT PRAYAGRAJ

The city of Prayagraj is among the largest cities of Uttar Pradesh. It is situated at the confluence of three rivers Ganga, Yamuna and the mythological Saraswati. The sacred meeting point is known as Sangam. Prayagraj city is well connected via Air, Rail and Road routes with major cities of India.

## MNNIT ALLAHABAD

Motilal Nehru National Institute of Technology Allahabad, Prayagraj (MNNIT) is an Institute with total commitment to quality and excellence in academic pursuits. It was established in 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh as MNREC, and was an associated college of University of Allahabad. On June 26, 2002 MNREC was transformed into the National Institute of Technology, fully funded by the Government of India. The Institute has been granted the status of institution of national importance w.e.f. 15<sup>th</sup> August 2007.

## DEPARTMENT OF CIVIL ENGINEERING

The Institute had begun offering Bachelor Degree Programmes in Civil Engineering. The Civil Engineering Department offers a Bachelor of Technology and four regular post graduate courses in Structural, Geotechnical, Environmental and Transportation Engineering. It also offers part-time courses for in-service engineers in the above mentioned specialization. The Department is also a recognized QIP (Quality Improvement Program) Centre for postgraduate studies. Department also offers PhD Programme in the above specializations. The course curriculum is up-to-date which covers the technical requirements of academics, industries and recent developments. It also provides research and consultancy services to various government /non-government organizations.

## ABOUT NIDM

The National Institute of Disaster Management (NIDM) has performed a crucial role in bringing disaster risk reduction to the forefront of the national agenda. NIDM provides Capacity Building support to various National and State level agencies in the field

of Disaster Management & Disaster Risk Reduction. The Institute's vision is to create a Disaster Resilient India by building the capacity at all levels for disaster prevention and preparedness.

## IMPORTANT DATES

Last date for receiving applications: **April 08, 2022**

Notification of acceptance: **April 10, 2022**

All the correspondence will be through Email only

### Organizing Committee:

<b>Patron</b>	Prof. R. S. Verma, Director, MNNIT Allahabad, Prayagraj
<b>Chairman</b>	Prof P.K. Mehta, Head, Civil Engineering, MNNIT Allahabad
<b>Co-Chairman</b>	Dr. Surya Prakash, Head, Geo- resource Division, NIDM
<b>Coordinators</b>	Dr H. K. Pandey, <i>Associate Professor,</i> Dr. R. P. Singh, <i>Professor</i> Dr.Pramod Soni, <i>Asst Professor,</i> <b>Department of Civil Engineering</b>

### For all Correspondence/Contact:

**Dr. H.K.Pandey, Prof. R.P. Singh & Dr. Pramod Soni**, Course Coordinators

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For details visit <http://www.mnnit.ac.in>

## Online Short Term Course

On

## Drought & Flood Analysis and their Management (DAM-2022)

**April 14-18, 2022**



### Jointly Organized

By

Department of Civil Engineering  
Motilal Nehru National Institute of  
Technology Allahabad  
Prayagraj - 211004, INDIA  
and

National Institute of Disaster Management  
(NIDM), Govt. of India, New Delhi



## ABOUT THE COURSE

**Drought** is one of the unique natural hazards which has multifaceted characteristics, causes damage to both ecology and economy. The mitigation of drought requires a dedicated policy involving precautionary and combative measures. Drought is different from water-scarcity as it cannot be prevented by the local water management institutions. A universal drought policy must come into effect to avoid its occurrence. Therefore, the prime goal and objective of a drought policy is reduction of drought vulnerability and enhancement of reliability and resilience of the region and its people against drought impacts. The components of the drought preparedness and mitigation are Prediction, Impact assessment and Response.



**Flood** is the most prevalent and costliest natural disaster not only in India but all over the world. Flood is usually a local and short term event that comes without any warning. When the flood hazards exceed the coping capabilities of the affected population, it become disaster. It is very difficult to control the devastating flood, one can only reduce the vulnerability by adopting certain pre and post-disaster measures. It is necessary to identify the most appropriate methodologies to analyze their temporal and spatial developments. This course is aimed to highlight the various methods of flood analysis and its forecasting. NIDM plays a vital role in the management of devastating floods in India under the guidance of MHA, Govt. of India,

## COURSE OBJECTIVE

The objective of this short-term course is to disseminate the knowledge of unique characteristics of Droughts & Floods occurrences and processes involved in their analysis and mitigation.

## COURSE CONTENTS

- Introduction to Drought & Flood
- Disaster Risk Reduction and Resilient
- Flood inundation mapping
- Application of in Flood mapping
- Spatial estimation of flood and drought using Arc-GIS.
- Impact Analysis of climate change on floods and droughts
- Integrated Water Resource Management,
- Drought & Flood Preparedness
- Hands-on sessions on various software used in flood and drought analysis, e.g. HEC-RAS, MATLAB, MS EXCEL etc.
- Statistical Analysis of Time-series data

## TARGET AUDIENCE

Faculties, Officers, Engineers, Scientists & other stakeholders working in different organisations as well as district administrations are expected to join this course.

## SPEAKERS

The speakers are faculty members/experts from IIT's/ MNNIT/ Other NIT's and scientists from field organisations like NIDM and Reputed Institutes/ Consultants in relevant areas.

## VENUE

Course will be held in online mode.

## REGISTRATION FEE

- **There is no registration Fee.**

## NOTE

- Scanned copy of registration form (duly forwarded) has to be uploaded on the registration link given below or QR code at the bottom right:  
<https://forms.gle/HjMPSPmhZ1ZUErGv8>
- A separate registration form shall be used for every applicant.
- Incomplete registration form or registration form without demand draft shall be rejected.
- Organisers have all the rights to cancel the course under unavoidable circumstances which will be communicated to all the participants by email.
- It is mediatory for the participants to also register at the NIDM training portal (<https://training.nidm.gov.in/>)

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on  
Drought & Flood Analysis and their management  
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Department of Civil Engineering  
MNNIT Allahabad

## REGISTRATION FORM

\*NAME (BLOCK LETTERS):

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\*Gender: M / F

\*DESIGNATION: \_\_\_\_\_

INSTITUTION / ORGANIZATION:

\_\_\_\_\_

MAILING ADDRESS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TELEPHONE: \_\_\_\_\_

\*MOBILE: \_\_\_\_\_

FAX: \_\_\_\_\_

\*EMAIL: \_\_\_\_\_

Highest Qualification: \_\_\_\_\_ Experience : \_\_\_\_ Yrs.

Date:

Signature of Applicant

Recommendation

Signature & Seal of Head of the  
Institution/Department/Organization with date

