

# Course Brochure

## Five Day National Level Training Programme on “Flood Risk Management and Water Sector DRR” (14-18 October, 2019) at NIH Roorkee (Uttarakhand) Jointly organized by NIDM & NIH



### About NIDM

The National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India is a centre of excellence and learning in the field of disaster management. It is a premier resource institution for human resource development, training, capacity building, applied research, implementation and dissemination of information and theoretical knowledge to case study based practitioners approach for holistic disaster management. The institute works towards the effective application of disaster risk mitigation and management in India as well as in the region by providing technical assistance for capacity building and developing disaster management systems and institutional framework in the sector. Some of the key areas in which the institute is involved are:

- ✚ **Training:** Training programs, training workshops, and training of trainers for officials at the national, state and district levels to prepare them to tackle natural disasters.
- ✚ **Research:** Issues, concerns and lacunae in management of disasters, Lessons learnt from past disasters and best practices in Disaster Management.

- 📄 **Documentation:** Disaster events, Impact of disasters, Situational analysis of relief and response measures, creation of database through primary surveys and secondary sources, preparation of brochures, pamphlets, posters, films etc.

## About NIH

**National Institute of Hydrology (NIH)** is a premier Institute in the area of hydrology and water resources in the country under Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation, Govt. of India. The Institute was established in 1978 with the main objective of undertaking, aiding, promoting and coordinating systematic and scientific work in all aspects of hydrology. The Institute has its Headquarters at Roorkee (Uttarakhand), four regional centres at Belgaum, Jammu, Kakinada and Bhopal and two centres for Flood Management Studies at Guwahati and Patna. The Institute is well equipped to carry out computer, laboratory & field oriented studies with laboratories like Remote Sensing Lab, Nuclear Hydrology Lab, Soil Lab and Water Quality Lab with state of the art equipments. The institute pursues capacity development by way of organizing specialized training courses on various aspects of Hydrology and Water Resources. The institute also organizes national and international seminars/ symposia/ workshops/ brainstorming sessions etc. For details about NIH, please visit [www.nihroorkee.gov.in](http://www.nihroorkee.gov.in)

## About the Course

### Logistics

#### **Programme Venue and Duration:**

The programme will be organized at NIH Roorkee. The training programme will start on Monday, Oct 14, 2019 and will conclude on Friday Oct 18, 2019.

**Target Group:** Senior and middle level officers/trainers from state government departments of Urban development, Irrigation & Flood Control, Agriculture, Animal Husbandry, Revenue, Health, PHED, PWD, Road & Bridges, Food & Civil Supplies, Environment & Forests, Police, Civil Defence, Municipal Corporations, Panchayati Raj, Rural Development, Transport Departments and Fire & Emergency Services, etc.

**Course Fee:** The Registration/nomination is free for the participants nominated by establishments/Departments/Institutes under the States/ UTs of India. It is intended to register only a limited number of participants for the course, on first come first served basis.

**Boarding & Lodging:** The boarding and lodging arrangements for the confirmed participants would be arranged and borne by NIH Roorkee whereas the travel cost of participants from their headquarters to NIH Roorkee & back would be borne by their own sponsoring / nominating organization/Department.

## **Academic**

**Objectives:** The key objectives are as follows:

- ◆ To provide the participants about the concepts of disaster management and an overview on approaches & pathways of Water sector innovation in flood DRR
- ◆ To enhance understanding concerning the nature, extent of the threats and the value of counter measures to combat the adverse impact of floods
- ◆ To give an overview on various structural and non-structural measures for preparedness and mitigation during flood w.r.t. climate change
- ◆ To provide an overview on the role of weather information and forecasts, climate change, Early Warning System and criteria for Flood
- ◆ To develop administrative capabilities to plan and implement disaster resilience for a safe national sustainable development w.r.t. water sector & DRR

**Course Contents:** The contents of the course would cover the following aspects, to achieve the objectives:

- ◆ Basic Concepts of Disaster Management and Disaster Risk Reduction in Flood Risk Management in changing scenario of climate and environment in India
- ◆ Flood Estimation, Flood Forecasting and Early Warning System & Role of Strategic preparedness tools in management of flood and its National Guidelines
- ◆ Health aspects in flood & Geo-informatics applications in flood disaster risk reduction
- ◆ Mitigation measures in India - Structural and Non- structural aspects of flood
- ◆ Search & Rescue operation in flood management & Incident Response System for flood
- ◆ Flood Resilient structures for its Mitigation
- ◆ Experience sharing & Challenges ahead based on initiatives taken by the stakeholders & lessons learnt on flood w.r.t. water sector & climate change

## **Methodology**

Power point presentations, discussions, exercises with question/ answer

## **Attendance & Certificate**

Marking attendance Forenoon and Afternoon is compulsory for certification. A certificate will be awarded to each participant on the successful completion of the programme.

## COURSE TEAM

NIDM	NIH
<b>Overall Supervision</b>	
<p><b>Maj. Gen. Manoj Kumar Bindal, VSM</b> Executive Director, National Institute of Disaster Management Ministry of Home Affairs, Govt. of India 4th Floor, NDCC-II, Jai Singh Road, New Delhi - 110 001</p>	<p><b>Dr. Sharad Kumar Jain</b> Director National Institute of Hydrology Ministry of Jal Shakti, Dept. Water Resources, RD &amp; GR, Govt. of India, Jalvigyan Bhawan Roorkee-247667 (Uttarakhand)</p>
<b>Course Coordinators</b>	
<p><b>Dr. A.D. Kaushik</b> Sr. Faculty &amp; Centre Head, Forest &amp; Bio-diversity DRR, ECDRM Division, National Institute of Disaster Management Ministry of Home Affairs, Govt. of India 4th Floor, NDCC-II, Jai Singh Road, New Delhi - 110 001 Email: adkaushik@gmail.com</p> <p><b>Dr. Anil K. Gupta</b> Associate Professor &amp; Head, ECDRM Division, National Institute of Disaster Management Ministry of Home Affairs, Govt. of India 4th Floor, NDCC-II, Jai Singh Road, New Delhi - 110 001 Email: anilg.gov.in@gmail.com anil.nidm@nic.in</p>	<p><b>Dr. Rakesh Kumar</b> Scientist-G &amp; Head Surface Water Hydrology Division, National Institute of Hydrology, Ministry of Jal Shakti, Dept. Water Resources, RD &amp; GR, Govt. of India, Roorkee – 247667 (Uttarakhand) Email: rakeshnih@gmail.com</p> <p><b>Dr. Archana Sarkar</b> Scientist-D Surface Water Hydrology Division, National Institute of Hydrology, Ministry of Jal Shakti, Dept. Water Resources, RD &amp; GR, Govt. of India, Roorkee – 247667 (Uttarakhand) Email: archana_sarkar@yahoo.com archana.nihr@gov.in Mob.: 9411100704</p> <p><b>Sh. J.P. Patra,</b> Scientist- C Surface Water Hydrology Division, National Institute of Hydrology Ministry of Jal Shakti, Dept. Water Resources, RD &amp; GR, Govt. of India, Roorkee – 247667 (Uttarakhand) Email: patra.nih@gmail.com jppatra.nihr@gov.in Mob: 9870784572</p>

**National Institute of Disaster Management  
(Ministry of Home Affairs, Govt. of India)**  
Website: www.nidm.net & www.nidm.gov.in

In collaboration with  
**National Institute of Hydrology (NIH), Roorkee (Uttarakhand)**  
**(DWR RD & GR, Ministry of Jal Shakti, Govt. of India)**  
Website: <http://nihroorkee.gov.in/>

**Nomination/Registration Form**

**Program: National level Training Programme on “Flood Risk  
Management and Water Sector DRR”**

**Date: 14-18 October, 2019**

**Venue: National Institute of Hydrology (NIH), Roorkee, (Uttarakhand)**

**Name of Participant:** \_\_\_\_\_

**Designation:** \_\_\_\_\_ **Age/Gender** \_\_\_\_\_

**Name & Address of the Organization** \_\_\_\_\_

**Address for Correspondence:** \_\_\_\_\_

**Tel: STD Code:** \_\_\_\_\_ **Office:** \_\_\_\_\_ **Residence:** \_\_\_\_\_

**Mobile:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_ **Blood group** \_\_\_\_\_

**Academic Background:** \_\_\_\_\_

**Whether accommodation required: Yes/ No**

**Signature of nominee**

**Date:**

**Signature & Seal of Nominating Authority**

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**PS: Please send the filled nomination to Dr. Archana Sarkar/ Sh J.P. Patra, NIH Roorkee, (archana\_nih@yahoo.com and patra.nih@gmail.com). Fax: 01332-272123, 273976.** It is intended to register only a limited number of participants for the course, on first come first served basis. The intending participants are, therefore, requested to register themselves early by filling and mailing the attached registration form preferably by 15<sup>th</sup> Sept, 2019, and latest by 30<sup>th</sup> Sept, 2019.