

stakeholders to work in a coherent and coordinated manner with other ministries, departments and organizations as well as NDMA, MHA, NIDM, State Revenue and Disaster Management Department, SDMA, DDMAs, SDRFs, QRTs, NDRF, ATIs, SIRDs, Police, Researchers, Academicians and other stakeholders working in this subject area.

#### **BOARDING, LODGING AND VENUE OF THE PROGRAMME**

The boarding and lodging for the outside Delhi participants will be arranged by Delhi Technological University on twin sharing basis.

The programme will be held at Delhi Technological University, New Delhi. It will commence at 9:00 AM on Monday, 10<sup>th</sup> February 2020 and will conclude on 5:00 PM on Friday, 14<sup>th</sup> February 2020. The duration of the training programme will be 5 days. All participants will be required to be present during the entire training programme. The deliberations during the training programme will be done primarily in English language.

#### **ABOUT NIDM**

National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India is a premium institute and a Statutory Body (under Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management. The institute lays emphasis on multi-stakeholder interdisciplinary cross-sectoral approach for an efficient proactive continuum disaster risk management based on participatory integrated multi-risk management concept. It aims towards a disaster free / resilient India.

#### **ABOUT DTU**

With a history stretching back over 69 years, providing an academic milieu amid adequate space for ingenious research as an integral part of curriculum design, Delhi Technological University is strongly identified with engineering education in India. The University has been a forerunner, and led the way in reform movement maintaining a compatibility with values and professional morality. DTU takes pride in being one of the major contributors in planning and construction of India's infrastructure. In DTU we endorse and cultivate the purity of mind as the strongest currency, with an impressive resolve to renovate and upgrade our knowledge infrastructure. DTU aspires to be ranked amongst the leading universities globally. Consequently, DTU's mission is to edify individuals to be competitive not only in India, but all over the world.

#### **REGISTRATION**

The delegates / participants of the programme will assemble in Pragyan Hall, Administrative Building, Delhi Technological University, Shahbad Daultpur, Bawana Road, Delhi – 110 042 at 9:00 A.M. on Monday, 10<sup>th</sup> February 2020 and will register themselves. DTU official will assist them in Registration.

#### **ORGANIZING TEAM**

##### **NIDM**

##### **Patron**

**Major General Manoj Kumar Bindal, VSM**

**Executive Director, NIDM**

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##### **Programme Coordinators:**

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**Geo-Meteorological Risks Management Division**

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**Geo-Meteorological Risks Management Division**

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##### **DTU**

##### **Patron**

**Prof. Yogesh Singh, Vice Chancellor**

##### **Chairman**

**Prof. Nirendra Dev, Head, Department of Civil Engineering**

##### **Programme Coordinators:**

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##### **Logistics:**

##### **NIDM**

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##### **For further details or information, please contact:**

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## **National Level Training Programme**

*On*

## **GEO-METEOROLOGICAL HAZARDS RISK MANAGEMENT**

**10 -14 February 2020 at DTU, Delhi**



*Organized jointly by*



**National Institute of Disaster Management**  
Ministry of Home Affairs, Govt. of India  
New Delhi – 110 001

&

**Delhi Technological University**  
Shahbad Daultpur, Main Bawana Road,  
New Delhi – 110 042

## BACKGROUND

NIDM has been mandated by **Sub-section 8 and 9, Section 42, Chapter 7 of Disaster Management Act 2005** to develop training modules and educational materials, undertake training, research, documentation and publication for capacity development and dissemination of knowledge / information related to disaster management, **assist in formulation of policies, plans, strategies and frameworks for disaster risk reduction and resilience** as well as promote awareness among different stakeholders for enhancing human capacity to avoid, prevent, mitigate, prepare, respond and recover efficiently in a proactive, holistic and integrated manner.

The Institute has been organizing various training courses and conducting seminars / workshops / conferences covering wide spectrum of themes at the national and international levels besides publishing several training modules and other documents including case studies, templates and disaster reports.

NIDM has been trying to bring various stakeholders at one platform through activities like India Disaster Management Conference, National Platform for Disaster Risk Reduction, South Asia Policy Dialogue, East Asia Summit for Earthquake Risk Reduction and Asia Ministerial Conference for Disaster Risk Reduction for better networking, linkages and coordination. The recent declarations at the international levels during the Sendai Framework for Disaster Risk Reduction, Prime Minister's 10 Point Agenda on DRR, Climate Change Action Plans, Urbanization Agenda and Sustainable Development Goals have also emphasized on collective synergized action and integrated approach for Climate and Disaster Resilient Safer Sustainable Development.

## INTRODUCTION

The unique geo-climatic and socio-economic attributes of the India has marked it as one of the highly vulnerable country to different hazards in the world map. The National Disaster Management Plan 2016 has categorized natural hazards in five groups namely, Geophysical, Hydrological, Meteorological, Climatological and Biological. At least one of the hazards or others among these groups jolts some or other parts of the nation. Earthquakes, landslides, floods, droughts and cyclones are some of the major geo-meteorological hazards that affect the nation. More than 50 percent of the landmass is vulnerable to moderate to very high intensity of seismic hazards. Being one of the youngest mountain ranges in the world, the Himalayan regions lie in high intensity of earthquake zone. Around 21 states and 4 union territories of the country are susceptible to landslide hazards. Himalayan region and Western Ghats are among the highly landslide affected areas. The ecological conditions along with monsoon precipitation and other factors have fabricated over one-eighth of geographical area of nation prone to floods and river erosions. India has a coastline of 7,516 kms length out of which approximately 5,700 kms length of coastline is vulnerable to cyclones and tsunamis. Droughts affect nearly 68 percent of arable areas in the country with varying magnitude and its adverse impacts include decline in agricultural production, salinization of soil, reduced ground water level, extinction of flora and fauna species and so on.

The disastrous events incurred due to hazards have caused enormous loss of life, economy and devastation to ecosystem. On an average, 2 percent of India's GDP is lost to adverse impacts of disasters. Being a developing country, on one hand, geo-meteorological hazards obstruct the socio-economic progress of the country and on the other hand, the anthropogenic activities due to development activities are one of the triggering factors of these hazards.

In pursuance to mandate envisaged under Disaster Management Act 2005, NIDM proposes a collaborative five days national level training programme on "Geo-meteorological Hazards Risk Management" from 10<sup>th</sup> – 14<sup>th</sup> February 2020 at DTU, New Delhi, jointly with Delhi Technological University, New Delhi for the officers / functionaries of the relevant Ministries/Departments/Institutions to share and exchange knowledge/information on Disaster Risk Reduction and Resilience including some important national initiatives and international agreements / frameworks on DRR including Disaster Management Act, National Disaster Management Plan, National Disaster Management Policy, Standard Operational Procedures on Disaster Management and various Guidelines on different types of disasters and related functions, (SFDRR), Climate change (COP21), sustainable development (SDGs), urbanization agenda and Prime Minister's 10 point agenda in disaster management. The training programme will focus on preparation of Disaster Management Plan highlighting strategies to build back better for exiting development and build to last for upcoming development activities by the respective ministry/department/institute.

The programme involves senior level resource persons, experts, professionals and functionaries who have very long and meaningful experiences with vast knowledge on the subject. During the programme, there will be presentations, panel discussions and group exercises on planning for disaster management and its implementation issues with examples from India and abroad, sharing of ideas and expertise / skills related to disaster risk reduction and resilience with scope, advantages and limitations as well as issues, challenges and opportunities in managing disaster events including the ethical perspectives. Government of India has established a well-structured disaster management system defining roles, responsibilities and procedures for different stakeholders as well as allocation of adequate funds through different mechanisms for undertaking activities on DRR&R. It has also laid down guidelines, procedures and protocols for Disaster Management functionaries. The programme will provide information about such documents and key important points to be considered in disaster risk reduction and resilience.

The representatives from the respective Ministry / Department / Organization/Agencies would be encouraged to take necessary initiatives for preparation of disaster management plans for their respective geographical / territorial and functional regimes.

It is expected that the programme would serve as a milestone for further actions in enhancing our capacities to reduce disasters and their impacts as part of the national goal to make the country disaster resilient through proactive prior planning on disaster risk reduction and resilience at proper place and time.

## PROGRAMME DETAILS

The programme details including the tentative schedule of the training and the likely resource persons will be provided separately before the programme.

## CERTIFICATE

A Certificate will be awarded to the participants on successful completion of the course.

## EVALUATION OF THE PROGRAMME

The training programme shall have a dedicated session for feedback and valediction. The participants will be provided with a valuation pro forma, which may be completed and handed over to the programme staff.

## OBJECTIVES

At the end of training workshop, the delegates/participants will be able to:

1. To develop better understanding about geo-meteorological hazards and Disaster Risk Reduction and Resilience (DRR&R) strategies;
2. To learn about the relevant Acts, Policies, Plans, Guidelines and SOPs on Disaster Management in the country;
3. To know about the important international agreements and declarations on disaster risks reduction, climate change, urbanization and sustainable development;
4. To develop solutions for development projects and mitigation and management of recurring disasters;
5. To initiate activities on formulation of disaster management plan for their functional and geographical regimes;
6. To discuss the collaboration and strengthening mechanisms for effective implementation of disaster management related activities at national, state as well as local level.

## BASIC COURSE LEARNING UNITS

Contents of the course would touch upon following aspects, to achieve the objectives:

- Basic understanding of geo-meteorological hazards
- Basic Concept of DM Act 2005 and other guidelines/plans/policies regarding DRR
- Linkages among development, climate change, urbanization and disaster management
- Field visit to enhance practical cognizance
- Suggestive Framework for preparation of DM Plan
- Group Exercise on Hazard, Vulnerability, Capacity and Risk Assessment ( HVCR)

## SUGGESTED READINGS

- Disaster Management Act 2005
- NDMA Policy 2009
- National Disaster Management Plan 2019
- National Guidelines pertaining to geo-meteorological hazards
- NDM Information and Communication System (<http://www.ndma.gov.in/images/guidelines/ndmandmicguidelines.pdf>)
- NDMA SOP for DM ([http://www.ndma.gov.in/images/policy\\_plan/NDMA-SOP-for-Disaster-Management.pdf](http://www.ndma.gov.in/images/policy_plan/NDMA-SOP-for-Disaster-Management.pdf))
- SOP for Responding to Disasters (<http://ndmindia.nic.in/>)

## TARGET GROUP

The target group for this programme would be middle and senior level functionaries from the central and state governments representing particularly offices engaged with disaster management area as well as relevant institutes / organizations / agencies. The nodal officers for disaster management amongst them will be the key -