



Centre for Disaster Management (CDM)
Lal Bahadur Shastri National Academy of Administration, Mussoorie

Training Programme on
A Resilient Future: Science and Technology for Disaster Risk Reduction
(for Scientists & Technologists working in the Government Sector)
(27th February - 03rd March, 2023)

Brief Note on the Training Programme

Centre at a Glance:

Center for Disaster Management (CDM) is a research and training centre, and a unit of Lal Bahadur Shastri National Academy of Administration, Department of Personnel & Training (DoPT), Government of India. It was established in 2003, with the foremost aim of training All India Services and Group - A Service officers in various aspects of Disaster Mitigation at Induction as well as in-service level, in addition to undertaking action research projects, documentation of best practices, case studies, teaching materials etc.

Centre for Disaster Management in collaboration with the Department of Science & Technology (DST), Government of India is organizing 5 (Five) day training programme on **“A Resilient Future: Science and Technology for Disaster Risk Reduction (for Scientists & Technologists)”** from 27th February - 03rd March, 2023 at LBSNAA, Mussoorie under the DST Scheme **“National Programme for Training of Scientists and technologists working in government sector”**

Target Group: Women scientists & technologists working in government sector.

- Junior level scientists: 2 to 9 years of service in Group ‘A’
- Middle level scientists: 9 to 18 years of service in Group ‘A’
- Senior level scientists: more than 18 years of service in Group ‘A’

Objectives of the Training Programme:

Participants will be able to:

- explain Disaster Risk Reduction (DRR) related concepts and science and technology for DRR
- identify and describe existing and emerging technologies for landslide and flood reduction
- explain methodological tools to assess vulnerabilities and risk and strengthen the resilience of communities at risk of landslides, floods and earthquakes.
- exemplify the role and the challenges of science and technological innovations for disaster risk reduction in an interdisciplinary manner including the importance of social aspects.
- to facilitate peer and involved learning to achieve the objectives of Paris Agreement, Sustainable Development Goals (SDGs) and Sendai Framework for Disaster Risk Reduction (SFDRR).
- this course aims to introduce participants to existing and emerging technologies suitable for disaster risk reduction while promoting the overall aim of sustainable development

Thematic Areas:

- Disaster Risk Reduction and Science and Technology for DRR
- Science and Technology for Risk Assessment
- Science and Technology for Prevention
- Science and Technology for Early-Warning and Preparedness
- Science and Technology for Disaster Response and Emergency Relief
- Science and Technology for Post Disaster Recovery and Reconstruction
- Science and Technology for Resilience and Sustainable Development

Training methodology:

- a. Flipped classroom sessions, field visits and group exercises will be part of the pedagogy.

Thematic Sessions versus Resource Persons:

- 1) **Disaster Risk Reduction for a Resilient Future**
(Dr. Shahid Iqbal Choudhary, IAS, CEO, Mission Youth & Secretary, Tribal Affairs Department, Govt of Jammu and Kashmir)
- 2) **Transfer of Technologies from Lab to Land and Knowledge Sharing for Efficient Governance**
(Dr. Nitin Maurya, Senior Scientist & Head, Dissemination and Social Diffusion (DSD) & In-Charge (North India Cell and North East Cell), National Innovation Foundation - India, Department of Science and Technology, Government of India, Gandhinagar)
- 3) **Protection of Built-Environment from Earthquakes - Through Mitigation and Preparedness Efforts**
(Prof. R. Pradeep Kumar, Director, CSIR- Central Building Research Institute (CBRI), Ministry of Science & Technology, Govt. of India, Roorkee)
- 4) **Application of Geospatial Technology for Disaster Risk Assessment & Management**
(Dr. V. Bhanu Murthy, Associate Director (retd.), National Remote Sensing Centre (NRSC), Indian Space Research Organisation (ISRO), Department of Space, Govt. of India, Hyderabad)
- 5) **Capacity Building through Geo-Informatics & Geo-Spatial Technology for Disaster Risk Reduction**
(Dr. Harish C. Karnatak, Scientist/Engineer - SG & Head, Geoweb Services. IT & Distance Learning (GIT&DL) Department, Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO), Department of Space, Government of India, Dehradun)
- 6) **Role of Technology in Last Mile Communication-Initiatives**
(Dr. Neha Satak, Co-founder and CEO, Astrome Technologies Pvt. Ltd., Bengaluru)
- 7) **Early warning and Communication for Prevention and Management of Heatwave and Components of dynamic HAP**
(Dr. Rajashree Kotharkar, Professor & Former Head Department of Architecture and Planning, Visvesvaraya National Institute of Technology (VNIT), Nagpur)
- 8) **Landslide Risk Mitigation and Management: Strategies and Solutions for Slope Stabilization & Rockfall Protection**
(Shri Ashish D. Gharpure, Managing Director, Genstru (Geotechnical Engineering) Consultants Pvt. Ltd., Pune)
- 9) **Multi-hazard Early warning and EOC - Available modern Technologies to ensure preventive approach**
(Col. Sanjay Srivastava, Chairman, Climate Resilient Observing-Systems Promotion Council (CROPC) & Convener, Lightning Resilient India Campaign (CROPC-IMD MoES initiative), New Delhi)
- 10) **GIS & Location Intelligence in Managing Disasters**
(Dr. Aniruddha Roy, Chief Technology Officer, Genesys International Corporation Ltd., & Co-Chair FICCI National Council of Geospatial Technology, Mumbai)