



Lal Bahadur Shastri
National Academy of Administration



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

Online Training Programme on
**Role of Technology in
Community Level Disaster Mitigation**
(for Scientists & Technologists)



(07th to 11th February, 2022)

Sponsored by

Department of Science & Technology (DST)

Ministry of Science and Technology, Government of India, New Delhi

Organised by

Centre for Disaster Management (CDM)

Lal Bahadur Shastri National Academy of Administration (LBSNAA), Mussoorie,
Uttarakhand-248179

Brief Note on 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 online training programme on “**Role of Technology in Community Level Disaster Mitigation (for Scientists**

& Technologists)” from 07-11 February, 2022 at LBSNAA, Mussoorie under the DST-Plan Scheme “National Programme for Training of Scientists and technologists working in government sector”

Target Group: 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:

- to deliberate on the mechanisms (various tools and techniques) for enabling community level disaster mitigation.
- to discuss emerging issues, Challenges and policies related to Climate change
- to provide exposure on effects of disasters on Various Socio-economic sectors and livelihoods integrating
- to provide exposure on Role of Science and Technology in Community level Disaster Risk Mitigation Planning
- to identify the policies, governance and planning and coordination mechanisms for inclusive disaster resilience
- to collate information and exchange technical knowledge/ experiences and information for climate change adaptation and Disaster Risk Reduction
- to discuss learnings and recommendations for future course of action
- to suggest future strategies, policies and options
- 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).

Thematic Areas:

- Governance in Science and Technology
- Science and Technology for Rural Communities
- Role of Technology in Community level Disaster Risk Mitigation
- Gender Mainstreaming
- Climate Change Adaptation and Disaster Risk Reduction
- Participatory Learning and Action (PLA)

Thematic Sessions versus Resource Persons:

- 1. Emerging Challenges and future trends in CCA & DRR for Sustainable Development**
(Shri Anil K. Sinha, IAS (retd.), Hony. Chief Editor, Know Disasters & Sr. Advisor, CDM, LBSNAA
Founder Vice Chairman, Bihar State Disaster Management Authority (BSDMA), Patna)

2. Community Based Disaster Risk Management (CBDRM): An Overview

(Shri Sarbjit Singh Sahota, Emergency Specialist, Disaster Risk Reduction Section, United Nations Children's Fund (UNICEF), UNICEF India Country Office, New Delhi)

3. Geospatial technologies for Community Disaster Management and Risk Reduction

(Dr. V. Bhanu Murthy, Associate Director (retd.), National Remote Sensing Centre (NRSC), Indian Space Research Organisation (ISRO), Department of Space, Govt. of India, Hyderabad)

4. Hazard Vulnerability Capacity Risk Assessment (HVCRA): An Overview of Tools and Techniques

(Prof. Vinod K Sharma, Vice Chairman, Sikkim State Disaster Management Authority & Sr. Professor, Indian Institute of Public Administration (IIPA), New Delhi)

5. Climate Change Mitigation: Role of Technology, Science, Economics and Policy

(Dr. S D Attri, Scientist G, Agromet Advisory Service Division, Office of Director General of Meteorology India Meteorological Department (IMD), New Delhi)

6. Role of Space Based Communication and Navigation Technology in Community level Disaster Mitigation

(Dr. Nilesh M. Desai, Director, Space Application Centre (SAC), Indian Space Research Organisation (ISRO), Department of Space, Govt. of India, Ahmedabad)

7. Technologies to Support Landslide Risk Reduction and Resilience

(Dr. Surya Parkash, Professor & Head, Geo-meteorological Risks Management Division, National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India, New Delhi)

8. DRR Perspectives for Sectors and Cross- cutting Issues and Emerging Solutions

(Shri Bishnupada Sethi IAS, Principal Secretary to Government, School & Mass Education Department, Government of Odisha, Bhubaneswar)

9. Role of Technology in Disaster Risk Reduction

(Dr. Pavan Kumar Singh, Joint Advisor (Ops), National Disaster Management Authority (NDMA), Govt. of India, New Delhi)

10. Sustainability and Conservation in a Changing World

(Dr. V. B. Mathur, Chairman, National Biodiversity Authority (NBA), Ministry of Environment, Forest and Climate Change (MOEF&CC), Government of India, Chennai)

11. Decision Support Systems (Geo-Spatial Technologies) for Disaster Risk Mitigation and Planning

(Dr. Harish Chandra Karnatak, Scientist/Engineer - SF & Head, Geoweb Services, IT & Distance Learning Department, Geospatial Technologies and Outreach Programme Group, Indian Institute of Remote Sensing (IIRS), Department of Space, Dehradun)

12. Climate change; Paris Agreement and Glasgow Pact Challenges and opportunities

(Dr. N H Ravindranath, Professor (retd.), Centre for Sustainable Technologies (CST), Indian Institute of Science (IISc), Bangalore)

13. Participatory Learning and Action (PLA): Tools & Techniques for Community Level Disaster Risk Mitigation

(Prof. Harish C. Pokhriyal, Executive Director, School of Open learning, University of Delhi, Delhi)

14. Gender sensitive approaches for Climate Change adaptation and Disaster Risk Reduction

(Dr. Ajinder Walia, Assistant Professor, National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India, New Delhi)

15. Early warning systems for extreme weather events

(Shri. Anand Sharma, Scientist-G & Former Additional DGM & Head, Regional Meteorological Centre, India Meteorological Department (IMD), New Delhi)

16. Harmonizing Personal and Professional Life (Work-Life Balance)

(Dr. K. Sekar, Professor, Department of Psychiatric Social Work, National Institute of Mental Health and Neuro-Sciences (NIMHANS), Bangalore)

17. Science and Technology for Development of Rural Communities

(Dr. Debapriya Dutta, Scientist-G & Adviser & Head, Mission Societal-Science for Equity Empowerment and Development (SEED), State Science & Technology Programme (SSTP)/ Patent Facilitation Programme (PFP), Department of Science & Technology, Government of India, New Delhi)

18. Management of CBRN Issues & Practical Tips on Fire Safety and on Search & Rescue

(Brig. Kuldeep Singh, Senior Consultant, (IRS & Mock Exercise), National Disaster Management Authority (NDMA), New Delhi)

19. Office Disaster Management Plan (ODMP)

(Shri Vishal Vasvani, Emergency Officer, United Nations Children's Fund (UNICEF), UNICEF Office for Chattisgarh, Raipur)

20. Role of Science, Technology in Disaster Management-Lessons Learnt and Challenges

*(Shri P. N. Rai IPS (retd.), Hon'ble Member, Bihar State Disaster Management Authority (BSDMA),
Pant Bhavan, Bailey Road, Patna)*

21. Presentation of scientific papers/Assignments by Course Participants

(How each participant area of work has the potential to make a positive impact on society and/or environment, provide solutions to various issues we face today, and finally elaborate on how administrators in various realms of governance can access and make use of this knowledge to identify issues and implement scientifically sound solutions and thereby add strength to the 'Aatmanirbhar Bharat Abhiyan')

List of Participants: A total of 37 participants were participating in this programme from various autonomous institutions/ organisations of ICMR, ICFRE, ICAR, CSIR, DRDO, Department of Space, Department of Atomic Energy, and Ministry of Science & Technology across India.