



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

## Training Programme on SCIENCE & TECHNOLOGY FOR DISASTER RISK REDUCTION

(Scientists & Technologists  
working in the Government Sector)  
(17<sup>th</sup> - 21<sup>st</sup> March, 2025)



Centre for Disaster Management  
Lal Bahadur Shastri National  
Academy of Administration,  
Mussoorie, Uttarakhand

### Session Plan

Time (hrs.)	Monday	Tuesday	Wednesday	Thursday	Friday
	17-03-2025	18-03-2025	19-03-2025	20-03-2025	21-03-2025
09:30 to 11:00	Registration &  Inaugural session	Use of technology –AI, 5G, IoT & cutting edge IT innovations for efficient disaster management (Atul Kumar Gupta)	Application of geospatial technology for disaster risk assessment (Arijit Roy)	Use of drones in rapid disaster response and relief (Smit Shah)	Office Disaster Management Plan (Vishal Vasvani)
11:00 to 11:30	Tea Break				
11:30 to 13:00	Protection of built-environment from earthquakes through resilient construction technologies and preparedness efforts (R. Pradeep Kumar)	Multi-hazard Early warning and EOC - Available modern Technologies to ensure preventive approach for lightning (Bikram Singh)	Application of geospatial technology for disaster early-warning and preparedness (Harish C. Karnatak)	Innovations and successful models in disaster response and emergency relief-A case study of Odisha (Kamal Lochan Mishra)	Role of science and technology in building back better in post-disaster recovery and reconstruction (V. Thiruppugazh)
13:00 to 14:00	Lunch				
14:00 to 15:00	Setting the context: Role of science and technology for disaster risk reduction (M. Bhaskara Rao)	Presentation’s on identified initiatives and innovations with respective to disaster risk assessment; disaster prevention; disaster early-warning and preparedness; disaster response and emergency relief; and post disaster recovery and reconstruction (Course participants)	Application of geospatial technology for disaster response and emergency relief (K H V Durga Rao)	Assignment presentations by the course participants	
15:10 to 16:10	Group exercise on identifying various initiatives and innovations/case studies with respective to disaster risk assessment; disaster prevention; disaster early-warning and preparedness; disaster response and emergency relief; and post disaster recovery and reconstruction (CDM Team)		Space science & technology elements/tools for disaster communication and management (Leena Kohli Kapoor)		
16:10 to 16:40	Tea Break				

*Venue: Nehru Auditorium, Gyanshila*

## Speakers Details:

1. **Shri Sriram Taranikanti, IAS**, Director, Lal Bahadur Shastri National Academy of Administration, Mussoorie, Uttarakhand
2. **Shri Chandrasekar S, IAS**, Director, Centre for Disaster Management & Deputy Director Lal Bahadur Shastri National Academy of Administration, Mussoorie, Uttarakhand
3. **Prof. R. Pradeep Kumar**, Director, CSIR- Central Building Research Institute (CBRI), Ministry of Science & Technology, Govt. of India. Roorkee (**Session moderator:** Dr. Sumit Saha)
4. **Prof. M. Bhaskara Rao**, Senior Consultant (Disaster management), Department of Revenue & Disaster Management, State Disaster Management Authority, Puducherry (**Session moderator:** Dr. Trupti Das)
5. **Shri Atul Kumar Gupta**, Scientist-G, Centre for Development of Telematics (C-DOT), Department of Telecommunications, Government of India, C-DOT Campus, Mehrauli, New Delhi (**Session moderator:** Dr. Surya Rathore)
6. **Shri Bikram Singh**, Head/ Director, State Meteorological Centre, India Meteorological Department (IMD), Dehradun (**Session moderator:** Shri Chinmay Sarkar)
7. **Dr. Arijit Roy**, Scientist SG & Head, Disaster Management Sciences Department (DMSD), Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO), Department of Space, Government of India, Dehradun (**Session moderator:** Dr. Ashish Kumar Mandal)
8. **Dr. Harish 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 (**Session moderator:** Dr. Khirrod Chandra Patra)
9. **Dr. KHV Durga Rao**, Group Director, Disaster Management Support Group (DMSG), National Remote Sensing Centre (NRSC), Indian Space Research Organisation (ISRO), Department of Space, Government of India, Hyderabad (**Session moderator:** Shri Roshan Wathore)
10. **Smt. Leena Kohli Kapoor**, Scientist 'SG', DES-CTAG-SSAA, Space Applications Centre (SAC), Indian Space Research Organisation (ISRO), Department of Space, Government of India, Ahmedabad (**Session moderator:** Shri Kanishka Bhattacharya)
11. **Shri Smit Shah**, President, The Drone Federation of India (DFI), New Delhi (**Session moderator:** Shri Oinam Rabi Singh)
12. **Dr. Kamal Lochan Mishra, IAS**, Executive Director, Odisha State Disaster Management Authority (OSDMA), Government of Odisha, Bhubaneswar (**Session moderator:** Dr. Bholu Ram Yadav)
13. **Shri Vishal Vasvani**, Emergency Officer, United Nations Children's Fund (UNICEF India), Raipur (**Session moderator:** Shri Santosh N. Nirmal)
14. **Dr. V. Thiruppugazh, IAS (retd.)**, Advisor, Council on Energy, Environment and Water (CEEW), New Delhi (**Session moderator:** Shri V. Rajesh)