



# **2<sup>nd</sup> Comprehensive Course on DISASTER RISK MANAGEMENT**

**Two-week Residential Course**

**Date:**  
**18 - 29 August, 2025**

**Venue:**  
**NIDM HQ, Delhi**

**National Institute of Disaster Management (NIDM)  
Ministry of Home Affairs, Government of India  
Plot No. 15, Pocket-3, Block-B,  
Sector-29, Rohini, Delhi – 110042**

<https://nidm.gov.in>



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**Concept Note on**  
**2<sup>nd</sup> Comprehensive Course on Disaster Risk Management**

**Date: 18 August - 29 August, 2025**

**Venue: NIDM HQ Delhi**

## **1. Introduction**

India's unique geography and large population make it highly vulnerable to disasters. In recent decades, the frequency and intensity of both natural and anthropogenic disasters have significantly increased, posing critical threats to human life, infrastructure, and environment. The country remains susceptible to many hazards, including floods, cyclones, earthquakes, droughts, landslides, and industrial accidents. This necessitates a strengthened focus on disaster preparedness, mitigation, response, and recovery across all sectors.

This increasing trend aligns with global assessments, such as the UN Office for Disaster Risk Reduction's (UNDRR), Global Assessment Report (GAR) 2025: *Resilience Pays: Financing and Investing for our Future*. This flagship report highlights the escalating frequency and intensity of major hazards worldwide, noting that direct disaster costs have grown to approximately \$202 billion annually, with true costs (including cascading and ecosystem impacts) exceeding \$2.3 trillion annually. It underscores the urgent need to transform how disaster risk is addressed amidst a rapidly changing climate (UNDRR, GAR 2025).

Climate change is significantly amplifying the frequency and severity of disasters in India, increasing the country's vulnerability to extreme weather events. Rising temperatures have led to more frequent heat waves, erratic monsoon patterns, and intense rainfall, resulting in urban flooding in major cities. Coastal regions are witnessing rising sea levels and more intensified cyclones due to warming oceans, leading to erosion, displacement, and infrastructure loss. In the Himalayas, rapid glacial melting is triggering flash floods, landslides, and glacial lake outburst floods (GLOFs), while increasingly frequent forest fires pose significant environmental and social risks across various regions. Agriculture is at risk from unseasonal rains and prolonged droughts, impacting food security and livelihoods. Additionally, the health of vulnerable populations is at risk due to a rise in vector-borne diseases and other climate-sensitive health events. These changes demand urgent adoption of climate- and disaster-resilient strategies, including early warning systems, adaptive infrastructure, and community preparedness.

According to official data from national authorities, 27 of India's 36 States and Union Territories are identified as disaster-prone. Furthermore, approximately 58.6% of India's landmass is susceptible to earthquakes, 12% is vulnerable to floods, and 5,700 km of the country's 7,516 km coastline is prone to cyclones and tsunamis. Additionally, 68% of cultivable land is drought-prone, and about 15% of the land area (primarily in hilly regions) is at risk of landslides. Over the past two and a half

decades (2000–2025), India has faced numerous major disasters, resulting in significant loss of lives, infrastructure damages and enormous economic losses (NDMA & MHA official reports).

**Table 1. Overview of Major Disaster Types and their Impacts in India (2000–2025)**

<b>Disaster Type</b>	<b>Average Annual Incidence/ Area Prone</b>	<b>Key Impacts (Illustrative Examples)</b>	<b>Recent Trends/Key Considerations (2000-2025)</b>
<b>Earthquakes</b>	58.6% of landmass in seismic zones II-V	Structural collapses, fatalities, injuries, landslides, infrastructure damage (roads, bridges), economic disruption.	Increased awareness post-Bhuj (2001); focus on seismic retrofitting, early warning development (e.g., Uttarakhand), and stricter building codes in vulnerable zones.
<b>Floods (Riverine, Flash, Urban)</b>	12% of landmass vulnerable	Displacement, fatalities, crop destruction, damage to infrastructure, waterborne diseases, disruption of livelihoods.	Increasing frequency and intensity of flash floods and urban flooding due to extreme rainfall events (e.g., Chennai 2015, Kerala 2018, Delhi 2023), exacerbated by unplanned urbanization and climate change.
<b>Cyclones/ Storms</b>	5,700 km of coastline vulnerable	Wind damage, storm surge, heavy rainfall, coastal erosion, power outages, damage to housing and agriculture, displacement.	More rapid intensification of cyclones (e.g., Fani, Amphan, Biparjoy) due to warmer ocean temperatures; improved early warning systems and evacuation efforts reducing fatalities but economic losses remain high.
<b>Droughts</b>	68% of cultivable land drought-prone	Crop failure, water scarcity, livestock deaths, food insecurity, migration, economic distress, increased farmer suicides.	Recurring droughts (e.g., 2002, 2015-16, 2018-19, 2023) impacting large agricultural areas; emphasis on water conservation, climate-resilient agriculture, and drought-resistant crops.

<b>Heatwaves</b>	Affects large parts of central, northern, and western India annually	Heatstroke, dehydration, increased mortality (especially among vulnerable populations), agricultural stress, increased energy demand, forest fires.	Significant increase in frequency, duration, and intensity of heatwaves (e.g., 2022, 2023-24) linked to climate change, leading to public health emergencies and impacts on labor productivity.
<b>Landslides</b>	~15% of hilly regions	Road blockages, destruction of homes, fatalities, disruption of communication and transport, altered river courses, GLOFs.	Frequent occurrences in Himalayan regions (e.g., Uttarakhand, Himachal Pradesh, Sikkim) and Western Ghats; exacerbated by heavy rainfall, deforestation, and unscientific construction practices.
<b>Forest Fires</b>	Widespread forest fires across regions (e.g., Uttarakhand, Odisha, MP)	Air pollution, biodiversity loss, destruction of forest resources, impact on livelihoods, exacerbation of climate change.	Growing problem, often linked to prolonged dry spells and human activity; challenges in rapid detection and control.
<b>Industrial/ Chemical Accidents</b>	Concentrated in industrial belts	Explosions, toxic gas leaks, environmental contamination, fatalities, long-term health effects.	Ongoing risk (e.g., Vizag gas leak 2020) requiring robust safety regulations, emergency preparedness plans, and regular drills.

The growing complexity and multi-disciplinary nature of disaster risk demand a highly skilled cadre of professionals capable of implementing holistic DRR strategies. It is in this context that this Concept Note proposes the 2<sup>nd</sup> Comprehensive Course on Disaster Risk Management, aiming to build advanced capacities among key stakeholders to navigate and mitigate the multifaceted challenges posed by current and future disaster scenarios.

## 2. Rationale

The rising frequency and severity of disasters, both natural and anthropogenic hazards, climate change, rapid urbanization, and environmental degradation have made communities more vulnerable and there is a need for a greater focus on disaster preparedness and mitigation. Traditionally, the approach to disasters was reactive, focusing primarily on relief and rehabilitation.



However, contemporary Disaster Risk Management emphasizes a proactive risk reduction, requiring trained officers to assess vulnerabilities, implement early warning systems, and educate communities to build resilience.

Moreover, managing disasters has become a complex and multidisciplinary task, involving coordination across sectors such as health, infrastructure, and environment, as well as use of advanced technology such as GIS and remote sensing, etc. Many regions, especially in developing countries, lack sufficient human resources to effectively carry out these tasks, leading to gaps in preparedness and response. Additionally, global commitments like the Sendai Framework for DRR and the Sustainable Development Goals underscore the importance of strengthening institutional capacities. The trained cadre of professionals plays a critical role not only during emergencies but also in long-term recovery and development, ensuring that affected areas can rebuild in a safer and more sustainable manner. Considering these aspects, NIDM is proposing to organize a two-week **"2<sup>nd</sup> Comprehensive Course on Disaster Risk Management"** at NIDM, Delhi.

### 3. Aim of the Course

The overarching aim of the "2<sup>nd</sup> Comprehensive Course on Disaster Risk Management" is to enhance the knowledge, skills, and capacities of disaster management professionals and stakeholders to effectively understand, assess, plan for, respond to, and recover from diverse disaster events. The course seeks to foster a proactive and holistic approach to DRR, climate change adaptation, promoting resilience building at all levels of governance and community engagement, in line with national and global frameworks.

### 4. Learning Objectives

By the end of this course, participants will be able to:

- **Master Foundational DRR Principles & Frameworks:** Comprehend the core concepts of DRR, analyze global and national policy frameworks, and understand the institutional landscape governing disaster management.
- **Conduct Holistic Risk Assessment & Proactive Planning:** Apply methodologies for comprehensive Hazard, Risk, Vulnerability, and Capacity Assessments (HRVCA) across diverse hazards, and formulate robust preparedness and mitigation strategies, including Early Warning Systems.
- **Lead Effective Disaster Response & Recovery:** Command principles of emergency response operations, coordination mechanisms, and immediate post-disaster assessment, while also planning for sustainable recovery, rehabilitation, and reconstruction with a "Build Back Better" approach.
- **Integrate Climate Change Adaptation & Risk Financing:** Analyze the amplified risks due to climate change, apply adaptation strategies, and understand the role of risk financing and disaster insurance in building long-term resilience.

- **Champion Mainstreaming & Inclusive DRR Practices:** Integrate DRR into broader development planning and policy, foster gender-sensitive and inclusive approaches, leverage technology for effective disaster management, and apply acquired knowledge to address real-world challenges.

## 5. Target Group

The "2<sup>nd</sup> Comprehensive Course on Disaster Risk Management" is primarily designed for mid to senior-level professionals and practitioners actively involved in various facets of disaster management and related fields. This includes government officials from SDMA, DDMA, allied ministries; personnel from emergency response forces (e.g., NDRF, SDRF); a few selected academics; and representatives from Non-Governmental Organizations (NGOs) and UN agencies. The course aims to foster multidisciplinary capacity and collaborative approaches among diverse stakeholders committed to strengthen disaster preparedness, response, recovery, and overall resilience.

## 6. Methodology

The "2<sup>nd</sup> Comprehensive Course on Disaster Risk Management" will employ a highly interactive, participatory, and blended learning methodology designed to facilitate deep understanding, practical application, and peer-to-peer learning. The pedagogical approach will be a judicious mix of theoretical exposition and practical exercises, ensuring that participants gain both conceptual clarity and actionable skills. Key methodologies include:

- **Interactive Lectures & Presentations:** Engaging sessions delivered by renowned subject matter experts, policymakers, and practitioners from national and international organizations.
- **Case Study Analysis:** In-depth examination of national and international disaster events and DRR initiatives to draw critical lessons learned and best practices.
- **Group Discussions & Brainstorming:** Facilitated sessions encouraging participants to share experiences, perspectives, and collaboratively address complex DRR challenges.
- **Practical Exercises & Workshops:** Hands-on sessions, including applications of geospatial technologies (GIS/RS), data analysis, mock drill planning, and simulation exercises, to build specific technical and operational skills.
- **Field/Exposure Visit:** A structured visit to a relevant disaster management facility, such as an Emergency Operations Centre (EOC), a Disaster Response Force Unit, or a vulnerable community, to provide real-world insights into operations and challenges.
- **Expert & Guest Sessions:** Interactions with leading national and international experts, policymakers, and affected community representatives to gain diverse insights and perspectives.

- **Experience Sharing:** Dedicated slots for participants to present their experiences, challenges, and innovative practices from their respective regions/organizations.
- **Audio-Visual Aids & Multimedia:** Use of documentaries, videos, and other multimedia resources to enhance learning and illustrate concepts.
- **Capstone Group Project:** Participants will work in groups on a real-world DRR challenge, applying course learnings to develop a comprehensive plan or solution, culminating in presentations and peer feedback.
- **Participatory Approach:** Emphasis on active participant engagement, critical thinking, problem-solving, and collaborative learning throughout the course.

## 7. Structure of the Training Module

The "2<sup>nd</sup> Comprehensive Course on Disaster Risk Management" is meticulously structured into a modular format to ensure a comprehensive and progressive learning experience. The training spans two weeks (11 working days) and is organized into ten distinct modules. Each module is designed to cover specific thematic areas of disaster risk management, moving systematically through the entire disaster management cycle and integrating crucial cross-cutting issues. This structure facilitates a deep dive into foundational concepts, practical applications, policy frameworks, and real-world challenges, culminating in a capstone project for hands-on experience. The training methodology emphasizes interactive sessions, case studies, workshops, and a dedicated field visit to maximize learning outcomes. The detailed breakdown of modules, their scope, and individual sessions is presented in the matrix below:

**Table 2. Comprehensive Course Module Matrix: Disaster Risk Management**

Module Name	Inclusions / Scope
<b>Module 0: Orientation &amp; Course Framework</b>	Introduction to the course, expectation setting, pre-assessment, ice-breaking, and comprehensive overview of the Disaster Management Cycle and course methodology.
<b>Module 1: Foundations of Disaster Risk Reduction (DRR)</b>	Core concepts of DRR, hazard, vulnerability, capacity, risk, resilience. Evolution of disaster management paradigms (from relief to risk reduction). Introduction to global and national DRR frameworks.
<b>Module 2: Institutional &amp; Policy Landscape for DRR</b>	Detailed exploration of international, national (NDMA, SDMAs, NDMP), and local institutional frameworks. Legal and policy instruments, roles and responsibilities of various stakeholders (government, civil society, private sector, self-help groups, etc.).
<b>Module 3: Hazard, Risk, Vulnerability &amp; Capacity Assessment (HRVCA)</b>	Methodologies for assessing multi-hazards, including the "Big Five" (Earthquakes, Floods, Storms, Droughts, Heatwaves). Techniques for vulnerability and capacity assessment.



	Introduction to GIS, Remote Sensing, and other technological tools for HRVCA.
<b>Module 4: Disaster Preparedness &amp; Mitigation Strategies</b>	Comprehensive coverage of pre-disaster measures: Early Warning Systems (EWS) for various hazards, structural and non-structural mitigation, infrastructure resilience, community-based preparedness, public awareness, and education.
<b>Module 5: Disaster Response Operations &amp; Field Visit</b>	Principles of emergency response, Incident Response System (IRS), coordination mechanisms (EOCs), search and rescue (SAR), rapid damage and needs assessment (RDANA), emergency communication, logistics, and practical field exposure.
<b>Module 6: Disaster Recovery &amp; Reconstruction</b>	Principles of post-disaster recovery, rehabilitation, and reconstruction. Focus on "Build Back Better" (BBB) approaches, livelihood restoration, psychosocial support, and long-term sustainable development.
<b>Module 7: Climate Change Adaptation &amp; Resilience Building</b>	Understanding climate change impacts on disaster risk. Strategies for climate change adaptation (CCA), including Nature-Based Solutions (NbS). Concepts of risk financing, disaster insurance, and innovative funding mechanisms for resilience.
<b>Module 8: Cross-Cutting Issues &amp; Mainstreaming DRR</b>	Integration of DRR into development planning, gender and inclusive approaches in DRR, role of technology and innovation, and mainstreaming DRR into higher education curricula and institutional policies.
<b>Module 9: Capstone Project &amp; Synthesis</b>	Participants will work on a comprehensive project applying course learnings to a real-world DRR challenge. Project presentations, peer feedback, course synthesis, and post-training evaluation.
<b>Module 10: Valedictory</b>	Formal closing ceremony, addresses by dignitaries, certificate distribution, and networking.

## 8. Expected Outcomes

The "2<sup>nd</sup> Comprehensive Course on Disaster Risk Management" is expected to yield significant and tangible outcomes, strengthening individual capabilities and the broader disaster management ecosystem. Specifically, the course aims to:

- **Elevate DRR Expertise:** Enhance participants' knowledge, analytical skills, and practical capabilities across all phases of the disaster management cycle, enabling more effective planning, response, and recovery.

- **Strengthen Collaborative Action:** Foster improved inter-agency coordination and promote integrated, inclusive approaches among diverse stakeholders (government, NGOs, private sector, academia) to build collective resilience.
- **Advance National & Global DRR Goals:** Contribute directly to building a more prepared and resilient India by equipping professionals to implement proactive risk reduction strategies and align with national priorities and international frameworks like the Sendai Framework and SDGs.

## 9. Cultural Evening

To enrich the learning experience and foster camaraderie among participants from diverse backgrounds, a dedicated Cultural Evening will be organized. This event will provide an informal platform for participants to interact, network, and showcase the rich cultural diversity of their respective regions. It aims to build stronger interpersonal bonds, promote cross-cultural understanding, and create a more relaxed and engaging environment that complements the rigorous academic sessions of the course. The evening may include cultural performances, traditional music, and an opportunity for participants to share aspects of their local heritage.

## 10. Registration Details

- **Online Pre-registration:** The participants/ concerned organizations may fill up the Google Form via this weblink: <https://forms.gle/rb8cSCskscC5vTMp9> or scan QR code for sharing their nominations.
- **Confirmation:** The confirmation to attend the programme will be shared via email. Only confirmed participants will be permitted to attend the course.
- **Offline Registration:** For confirmed participants, in-person registration will take place on Day 1, Monday 18 August, 2025, from 9:00 AM at the venue.



## 11. Boarding and Lodging

All participants are required to register through the QR code provided above in the concept note. There is no course fee; incomplete registration forms will be rejected. Once the completed nomination form is submitted, confirmation will be communicated via email. Lodging and boarding for the selected candidates will be arranged at the NIDM Rohini Guest House. No TA/DA will be provided by the host institution.

**Note: Please don't proceed to join the course without the confirmation E-mail.**

## 12. Conclusion

The escalating frequency, intensity, and complexity of disasters, exacerbated by climate change, underscore the urgent need for robust and dynamic disaster risk management capabilities. The "2<sup>nd</sup> Comprehensive Course on Disaster Risk Management" is designed as a critical intervention to meet this imperative. By offering a meticulously structured curriculum, incorporating international best practices, and employing highly interactive and practical methodologies, the course aims to cultivate

a new generation of empowered DRR professionals. This initiative is pivotal in strengthening India's resilience against current and future disaster challenges, ensuring that communities are better prepared, lives are safeguarded, and sustainable development gains are protected. The successful execution of this course will be a significant step towards building a safer, more resilient India in line with national priorities and global commitments.

### 13. Organizing Team

<b>Patron</b>	<b>Sh. Safi Ahsan Rizvi, IPS, <i>Executive Director, NIDM</i></b>
<b>Course Coordinators</b>	<b>Sh. Shiv Narayan Sidh, <i>Head EDRM II, NIDM</i></b>
	<b>Dr. Pankaj Kumar, <i>Assistant Professor, NIDM</i></b>
<b>Course Team</b>	<b>Ms. Atisha Sood, <i>Consultant, NIDM</i></b>
	<b>Dr. Kundan Deval, <i>Consultant, NIDM</i></b>
	<b>Dr. Somashree Das, <i>Project Scientist, NIDM</i></b>
	<b>Dr. Subhojit Shaw, <i>Project Consultant, NIDM</i></b>

## 14. Tentative Schedule

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
<b>Day 1: Monday, 18 August 2025</b>			
09:30 – 10:00	Participant Registration		NIDM Team
<b>Inaugural Session</b>			
10:00 – 10:10	Opening Remarks		Sh. Shiv Narayan Sidh, Course Director & Co-Lead, NIDM
10:10 – 10:30	Welcome Address		Sh. Safi Ahsan Rizvi, Executive Director, NIDM
10:30 – 11:30	<b>Keynote Address: Leadership in Disaster Management</b>		Sh. Rajendra Singh, HOD & Member, NDMA
11:30 – 12:30	<b>Inaugural Address: Evolution of Disaster Management Paradigm &amp; Global Frameworks</b>		Sh. Krishna Vatsa, Member NDMA
12:30 – 13:30	Lunch Break		
<b>Module 0: Orientation &amp; Course Framework</b>			
13:30 – 14:30	<p><b>Session 1: International &amp; Regional Cooperation in DRR</b></p> <p><b>Session Overview:</b> This session explores how multilateral frameworks and cross-border partnerships drive risk governance and resilience building. Participants will learn about joint response mechanisms, information sharing, and knowledge exchange for effective humanitarian assistance and early recovery.</p> <p><b>Reading Links</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.undrr.org/drr-glossary">https://www.undrr.org/drr-glossary</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2212420919301268">https://www.sciencedirect.com/science/article/pii/S2212420919301268</a></li> <li>❖ <a href="https://www.undrr.org/terminology/disaster-risk-reduction">https://www.undrr.org/terminology/disaster-risk-reduction</a></li> <li>❖ <a href="https://www.ucf.edu/online/leadership-management/news/the-disaster-management-cycle/">https://www.ucf.edu/online/leadership-management/news/the-disaster-management-cycle/</a></li> </ul>	Interactive Lecture, Group Discussion	Dr. Animesh Kumar, UNDRR Sh. Shiv Narayan Sidh, NIDM Sh. Shekher Chaturvedi, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	❖ <a href="https://www.adrc.asia/publications/TDRM2005/TDRM_Good_Practices/PDF/PDF-2005e/Chapter2_2.2.pdf">https://www.adrc.asia/publications/TDRM2005/TDRM_Good_Practices/PDF/PDF-2005e/Chapter2_2.2.pdf</a>		
<b>Module 1: Foundations of Disaster Risk Reduction (DRR)</b>			
14:30 – 15:30	<p><b>Course Orientation, Pre-Assessment &amp; Conceptual Overview of DRR Cycle</b></p> <p><b>Session Overview:</b> This foundational session will welcome participants and set the stage for the course. It will cover the core conceptual framework of the disaster risk reduction (DRR) cycle and include a pre-assessment to gauge existing knowledge and expectations.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.undrr.org/drr-glossary/terminology">https://www.undrr.org/drr-glossary/terminology</a></li> <li>❖ <a href="https://onlinelibrary.wiley.com/doi/full/10.1111/j.1539-6924.2010.01528.x?casa_token=BNsdfzz1Ga8AAAAA%3A8fzeQNdJRM4XRH5yH2LZgc3gSivMoRRmyL9L-2JhGbx3ZxdxOoEQp3obkzeTa7bXXrsLWFrQ0HBqflpK">https://onlinelibrary.wiley.com/doi/full/10.1111/j.1539-6924.2010.01528.x?casa_token=BNsdfzz1Ga8AAAAA%3A8fzeQNdJRM4XRH5yH2LZgc3gSivMoRRmyL9L-2JhGbx3ZxdxOoEQp3obkzeTa7bXXrsLWFrQ0HBqflpK</a></li> <li>❖ <a href="https://www.preventionweb.net/files/26081_kp1conceptdisasterrisk1.pdf">https://www.preventionweb.net/files/26081_kp1conceptdisasterrisk1.pdf</a></li> <li>❖ <a href="https://www.undrr.org/publication/sendai-framework-disaster-risk-reduction-2015-2030">https://www.undrr.org/publication/sendai-framework-disaster-risk-reduction-2015-2030</a></li> <li>❖ <a href="https://extranet.who.int/kobe_centre/sites/default/files/pdf/WHO%20Guidance_Research%20Methods_Health-EDRM_3.2.pdf">https://extranet.who.int/kobe_centre/sites/default/files/pdf/WHO%20Guidance_Research%20Methods_Health-EDRM_3.2.pdf</a></li> <li>❖ <a href="https://www.researchgate.net/publication/313838329_DISASTER_VULNERABILITY_RISK_AND_CAPACITY_definition_concept_relationship">https://www.researchgate.net/publication/313838329_DISASTER_VULNERABILITY_RISK_AND_CAPACITY_definition_concept_relationship</a></li> </ul>	Interactive Presentation, Expectations Mapping, Pre-Assessment	Dr. Pankaj Kumar, NIDM Ms. Atisha Sood
15:30 – 15:45	<b>Tea Break</b>		
15:45 – 16:30	<p><b>Session 2: Key Concepts in DRR: Hazard, Vulnerability, Capacity, Risk &amp; Resilience</b></p> <p><b>Session Overview:</b> This cornerstone session defines the fundamental terminology of DRR. It clarifies the interconnections between hazard, vulnerability, capacity, exposure, and risk assessment to build a practical understanding of resilience and coping mechanisms.</p>	Interactive Lecture, Case Studies	Sh. Shiv Narayan Sidh, NIDM Ms. Atisha Sood, NIDM Ms. Stanzin Tsela, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<b>Reading Links:</b> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/Simplified_Guidelines_for_earthquake.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/Simplified_Guidelines_for_earthquake.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/retrofitting-guidelines.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/retrofitting-guidelines.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/earthquakes.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/earthquakes.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/EQ%20North%20East.pdf">https://nidm.gov.in/PDF/pubs/EQ%20North%20East.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/SikkimEQ_ARoadmapforRecreation2011.pdf">https://nidm.gov.in/PDF/pubs/SikkimEQ_ARoadmapforRecreation2011.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/SikkimEQ_ReconstructionStrategy2011.pdf">https://nidm.gov.in/PDF/pubs/SikkimEQ_ReconstructionStrategy2011.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/Risk%20to%20Resilience.pdf">https://nidm.gov.in/PDF/pubs/Risk%20to%20Resilience.pdf</a></li> </ul>		
16:30 - 17:30	<p><b>Session 3: Landslide Risk Management: Prevention &amp; Mitigation</b></p> <p><b>Session Overview:</b> This session addresses landslide hazard through a combination of structural measures and strategic planning. It covers slope stabilization, drainage management, early warning systems, and land-use planning to enhance community awareness and reduce risk.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.undrr.org/understanding-disaster-risk/terminology/hips/gh0007">https://www.undrr.org/understanding-disaster-risk/terminology/hips/gh0007</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/Landslide_Preparedness_Guide_Hi.pdf">https://nidm.gov.in/PDF/pubs/Landslide_Preparedness_Guide_Hi.pdf</a></li> <li>❖ <a href="https://geoenvironmental-disasters.springeropen.com/articles/10.1186/s40677-024-00307-3#:~:text=Uttarakhand%20lies%20in%20the%20Himalayas.%3B%20Chauhan%20and%20Dixit%202023">https://geoenvironmental-disasters.springeropen.com/articles/10.1186/s40677-024-00307-3#:~:text=Uttarakhand%20lies%20in%20the%20Himalayas.%3B%20Chauhan%20and%20Dixit%202023</a></li> <li>❖ <a href="https://www.ucost.in/document/publication/research/landslide-research-paper.pdf">https://www.ucost.in/document/publication/research/landslide-research-paper.pdf</a></li> <li>❖ <a href="https://www.tandfonline.com/doi/full/10.1080/19475705.2023.2273214">https://www.tandfonline.com/doi/full/10.1080/19475705.2023.2273214</a></li> </ul>	Interactive Lecture, Case Studies	Prof. Surya Prakash, NIDM Dr. Arkaprabha Sarkar, NIDM Ms. Ramandeep Kaur, NIDM
<b>Day 2: Tuesday, 19 August 2025</b>			
09:30 – 10:00	<b>Daily Precap &amp; Objectives Review</b>	Quick recap of Day 1, overview of Day 2 objectives	Course Coordinator



Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
10:00 – 11:15	<p><b>Session 4: Group Activity: Analyzing DRR Frameworks through Case Studies</b></p> <p><b>Session Overview:</b> A hands-on, collaborative session where participants apply the principles of national and international DRR frameworks to real-world case studies, promoting a practical understanding of policy implementation.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.unesco.org/en/disaster-risk-reduction/frameworks">https://www.unesco.org/en/disaster-risk-reduction/frameworks</a></li><li>❖ <a href="https://www.undrr.org/implementing-sendai-framework/what-sendai-framework">https://www.undrr.org/implementing-sendai-framework/what-sendai-framework</a></li><li>❖ <a href="https://ndmindia.mha.gov.in/ndmi/global-frameworks-for-drr">https://ndmindia.mha.gov.in/ndmi/global-frameworks-for-drr</a></li><li>❖ <a href="https://www.undrr.org/gar/gar2024-special-report/gar-2024-case-studies">https://www.undrr.org/gar/gar2024-special-report/gar-2024-case-studies</a></li><li>❖ <a href="https://knowledge.unicef.org/india/resource/shock-responsive-social-protection-compendium-case-studies-g20-disaster-risk-reduction">https://knowledge.unicef.org/india/resource/shock-responsive-social-protection-compendium-case-studies-g20-disaster-risk-reduction</a></li></ul>	Group Work, Presentation, Facilitated Discussion	Dr. Pankaj Kumar, NIDM Dr. Somashree Das, NIDM Ms. Atisha Sood, NIDM
11:15 – 11:45	Tea Break		
Module 2: Institutional & Policy Landscape for DRR			
11:45 – 13:00	<p><b>Session 5: Earthquake Risk Reduction: Strategies &amp; Case Studies</b></p> <p><b>Session Overview:</b> This session focuses on effective strategies for seismic risk reduction. It covers building codes, structural retrofitting, early warning systems, and emergency preparedness to enhance community resilience and improve disaster response.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.undrr.org/media/74265/download?startDownload=20250728">https://www.undrr.org/media/74265/download?startDownload=20250728</a></li><li>❖ <a href="https://www.undrr.org/publication/international-cooperation-developing-countries-reduce-their-disaster-risk-and-disaster">https://www.undrr.org/publication/international-cooperation-developing-countries-reduce-their-disaster-risk-and-disaster</a></li><li>❖ <a href="https://www.pib.gov.in/PressReleaseIframePage.aspx?PRID=1556471">https://www.pib.gov.in/PressReleaseIframePage.aspx?PRID=1556471</a></li><li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2590061720300351">https://www.sciencedirect.com/science/article/pii/S2590061720300351</a></li></ul>	Interactive Lecture, Examples	Dr. Amir Ali Khan, NIDM Dr. Pankaj Kumar, NIDM Ms. Avipsha Mohanty, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://asiafoundation.org/wp-content/uploads/2022/10/Indias-Disaster-Risk-Reduction-Journey_TRIDEP_EN.pdf">https://asiafoundation.org/wp-content/uploads/2022/10/Indias-Disaster-Risk-Reduction-Journey_TRIDEP_EN.pdf</a></li> <li>❖ <a href="https://www.unisdr.org/2016/amcdrr/wp-content/uploads/2017/10/AMCDRR-2016-REPORT-Final.pdf">https://www.unisdr.org/2016/amcdrr/wp-content/uploads/2017/10/AMCDRR-2016-REPORT-Final.pdf</a></li> <li>❖ <a href="https://ndmindia.mha.gov.in/ndmi/npdrr-constitution">https://ndmindia.mha.gov.in/ndmi/npdrr-constitution</a></li> </ul>		
13:00 – 14:00	<b>Lunch Break</b>		
14:00 – 15:00	<p><b>Session 6: Role of State &amp; Local Institutions in DRR Governance &amp; Policy, and Implementation Challenges (Case Study)</b></p> <p><b>Session Overview:</b> This session examines the crucial role of decentralization in DRR governance. It highlights the challenges of policy implementation at the local level and the importance of institutional coordination and capacity building.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://give2asia.org/the-role-of-local-ngos-in-disaster-risk-reduction/">https://give2asia.org/the-role-of-local-ngos-in-disaster-risk-reduction/</a></li> <li>❖ <a href="https://www.preventionweb.net/files/10748_FlyerLocalGovernments.pdf">https://www.preventionweb.net/files/10748_FlyerLocalGovernments.pdf</a></li> <li>❖ <a href="https://www.gfdrr.org/sites/default/files/publication/Engaging%20Local%20Actors%20in%20Disaster%20Recovery%20Frameworks%20-%20Final.pdf">https://www.gfdrr.org/sites/default/files/publication/Engaging%20Local%20Actors%20in%20Disaster%20Recovery%20Frameworks%20-%20Final.pdf</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/abs/pii/S2212420925001153">https://www.sciencedirect.com/science/article/abs/pii/S2212420925001153</a></li> <li>❖ <a href="https://www.researchgate.net/publication/343591271_Good_governance_and_local_level_policy_implementation_for_disaster-risk-reduction_actual_perceptual_and_contested_perspectives_in_coastal_communities_in_Bangladesh">https://www.researchgate.net/publication/343591271_Good_governance_and_local_level_policy_implementation_for_disaster-risk-reduction_actual_perceptual_and_contested_perspectives_in_coastal_communities_in_Bangladesh</a></li> </ul>	Lecture, Case Study Discussion	Sh. Shekher Chaturvedi, NIDM Dr. Gagandeep Singh, NIDM Sh. Arun Verma, NIDM
15:00 – 15:15	<b>Tea Break</b>		

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
15:15 – 16:15	<p><b>Session 7: Heatwave Risks in India: Understanding, Preparedness &amp; Health Impacts</b></p> <p><b>Session Overview:</b> This timely session explores heatwave vulnerability, public health impacts, and the strategic planning needed for preparedness. It covers the development of Heat Action Plans and the importance of early warning systems and community awareness.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.ceew.in/sites/default/files/ceew-madrehow-extreme-heat-is-impacting-india-final-web-file.pdf">https://www.ceew.in/sites/default/files/ceew-madrehow-extreme-heat-is-impacting-india-final-web-file.pdf</a></li> <li>❖ <a href="https://www.ceew.in/sites/default/files/annexure-1-state-wise-handbooks-of-heat-risk.pdf">https://www.ceew.in/sites/default/files/annexure-1-state-wise-handbooks-of-heat-risk.pdf</a></li> <li>❖ <a href="https://www.undrr.org/understanding-disaster-risk/terminology/hips/mh0047">https://www.undrr.org/understanding-disaster-risk/terminology/hips/mh0047</a></li> <li>❖ <a href="https://ncdc.mohfw.gov.in/wp-content/uploads/2024/03/Advisory-for-State-Health-Department-on-heat-wave-season-2024_NPCCHH.pdf">https://ncdc.mohfw.gov.in/wp-content/uploads/2024/03/Advisory-for-State-Health-Department-on-heat-wave-season-2024_NPCCHH.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/Natural-Hazards/Heat-Wave#">https://ndma.gov.in/Natural-Hazards/Heat-Wave#</a></li> <li>❖ <a href="https://mausam.imd.gov.in/responsive/heatwave_guidance.php">https://mausam.imd.gov.in/responsive/heatwave_guidance.php</a></li> </ul>	Interactive Lecture, Case Studies	Sh. Shravan Prabhu, CEEW Ms. Atisha Sood, NIDM Ms. Vandana Choudhary, NIDM
16:15 – 17:30	<p><b>Session 8: India's National DRR Framework: Act, Policy &amp; Plan</b></p> <p><b>Session Overview:</b> An in-depth look at India's legal and institutional architecture for disaster management. This session dissects the Disaster Management Act, the National Policy, and the National Disaster Management Plan to explain the country's institutional framework and risk governance.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/ndmp-2019.pdf">https://ndma.gov.in/sites/default/files/PDF/ndmp-2019.pdf</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2212420921003897">https://www.sciencedirect.com/science/article/pii/S2212420921003897</a></li> <li>❖ <a href="https://www.mha.gov.in/sites/default/files/NPDM-101209.pdf">https://www.mha.gov.in/sites/default/files/NPDM-101209.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/Governance/PM-10-Agenda">https://ndma.gov.in/Governance/PM-10-Agenda</a></li> </ul>	Presentation, Q&A	Sh. Rohit Kumar, NIDM Sh. Shiv Narayan Sidh, NIDM Sh. Arun Verma, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://ndmindia.mha.gov.in/ndmi/images/The%20Disaster%20Management%20Act.%202005.pdf">https://ndmindia.mha.gov.in/ndmi/images/The%20Disaster%20Management%20Act.%202005.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/g20">https://ndma.gov.in/g20</a></li> <li>❖ <a href="https://static.pib.gov.in/WriteReadData/specificdocs/documents/2021/dec/doc202112101.pdf">https://static.pib.gov.in/WriteReadData/specificdocs/documents/2021/dec/doc202112101.pdf</a></li> </ul>		
<b>Day 3: Wednesday, 20 August 2025</b>			
<b>Module 3: Hazard, Risk, Vulnerability &amp; Capacity Assessment (HRVCA)</b>			
<b>09:30 – 10:30</b>	<p><b>Session 9: Understanding Multi-Hazards: Characteristics &amp; Impacts (<i>Big Five Focus - GAR 2025</i>)</b></p> <p><b>Session Overview:</b> This session provides a holistic view of multi-hazard risk and the phenomenon of disaster cascading. It aligns with the Global Assessment Report (GAR) 2025, focusing on hazard interactions and the impacts of climate extremes.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/LBSNAA/JSPP_NDMA.pdf">https://ndma.gov.in/sites/default/files/PDF/LBSNAA/JSPP_NDMA.pdf</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2212420922000486">https://www.sciencedirect.com/science/article/pii/S2212420922000486</a></li> <li>❖ <a href="https://www.undrr.org/gar/gar2025#download?utm_source=publication&amp;utm_medium=pdf&amp;utm_campaign=GAR2025">https://www.undrr.org/gar/gar2025#download?utm_source=publication&amp;utm_medium=pdf&amp;utm_campaign=GAR2025</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Heatwave-workshop/13012024/session3/IITBombay.pdf">https://ndma.gov.in/sites/default/files/PDF/Heatwave-workshop/13012024/session3/IITBombay.pdf</a></li> <li>❖ <a href="https://ndmindia.mha.gov.in/ndmi/images/pdf/MultiHazardRiskVulnerabilityAssessment.pdf">https://ndmindia.mha.gov.in/ndmi/images/pdf/MultiHazardRiskVulnerabilityAssessment.pdf</a></li> </ul>	Interactive Lecture, A/V Aids	Sh. Shiv Narayan Sidh, NIDM Ms. Atisha Sood, NIDM Sh. Shreyash Dwivedi, NIDM
<b>10:30 – 10:45</b>	<b>Tea Break</b>		
<b>10:45 – 11:45</b>	<p><b>Session 10: Vulnerability &amp; Capacity Assessment Methodologies: <i>Case Study</i></b></p> <p><b>Session Overview:</b> This session provides a practical understanding of methodologies for vulnerability mapping and capacity analysis. It covers data collection, stakeholder engagement,</p>	Lecture, Practical Examples, Brainstorming	Dr. Arkaprabha Sarkar, NIDM Ms. Atisha Sood, NIDM Sh. Sandeep K. Singh, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<p>and community participation to inform risk identification and baseline assessment.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://link.springer.com/article/10.1007/s10584-016-1642-0">https://link.springer.com/article/10.1007/s10584-016-1642-0</a></li> <li>❖ <a href="https://www.preventionweb.net/publication/what-vca-introduction-vulnerability-and-capacity-assessment">https://www.preventionweb.net/publication/what-vca-introduction-vulnerability-and-capacity-assessment</a></li> <li>❖ <a href="https://preparecenter.org/wp-content/sites/default/files/petite_martinique_vca.pdf">https://preparecenter.org/wp-content/sites/default/files/petite_martinique_vca.pdf</a></li> <li>❖ <a href="https://www.adaptation-undp.org/sites/default/files/resources/6_capacities_and_vulnerabilities_assessment_framework_cva_framework.pdf">https://www.adaptation-undp.org/sites/default/files/resources/6_capacities_and_vulnerabilities_assessment_framework_cva_framework.pdf</a></li> </ul>		
11:45 - 12:45	<p><b>Session 11: Community-Based Disaster Preparedness (CBDRR) &amp; Mock Drill Planning Session</b></p> <p><b>Session Overview:</b> This interactive session highlights the importance of community participation in disaster preparedness. It includes a mock drill planning exercise to teach participants how to mobilize communities and develop effective communication strategies.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.mv/en/community-based-disaster-risk-management-cbdrm">https://ndma.gov.mv/en/community-based-disaster-risk-management-cbdrm</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/CBDRR_Guidelines_Oct_2024.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/CBDRR_Guidelines_Oct_2024.pdf</a></li> <li>❖ <a href="https://www.preventionweb.net/news/following-odisha-example-developing-community-based-disaster-management-india">https://www.preventionweb.net/news/following-odisha-example-developing-community-based-disaster-management-india</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/MEQ_NIDM2022.pdf">https://nidm.gov.in/PDF/pubs/MEQ_NIDM2022.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/SikkimEQ_ARoadmapforRecurection2011.pdf">https://nidm.gov.in/PDF/pubs/SikkimEQ_ARoadmapforRecurection2011.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/Guidelines-on-Management-of-GLOfs.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/Guidelines-on-Management-of-GLOfs.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/cyclones.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/cyclones.pdf</a></li> </ul>	Interactive Discussion, Group Exercise, Planning Session	Dr. Sushma Guleria, NIDM Sh. Moses Prakasham, NIDM
12:45 - 13:45	<b>Lunch Break</b>		

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
13:45 – 14:45	<p><b>Session 12: Workshop: Application of Geospatial Technologies (GIS/RS) in HRVCA</b></p> <p><b>Session Overview:</b> A hands-on workshop demonstrating how Geographic Information Systems (GIS) and Remote Sensing (RS) are used for hazard mapping, vulnerability analysis, and risk visualization to support disaster management decisions.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.undrr.org/publication/use-geospatial-data-implementing-ndra">https://www.undrr.org/publication/use-geospatial-data-implementing-ndra</a></li> <li>❖ <a href="https://www.innovationnewsnetwork.com/how-geospatial-technologies-aid-in-effective-disaster-management/38841/">https://www.innovationnewsnetwork.com/how-geospatial-technologies-aid-in-effective-disaster-management/38841/</a></li> <li>❖ <a href="https://nidm.gov.in/safety_earthquake.asp">https://nidm.gov.in/safety_earthquake.asp</a></li> <li>❖ <a href="https://nidm.gov.in/pdf/pubs/DRR-Urban.pdf">https://nidm.gov.in/pdf/pubs/DRR-Urban.pdf</a></li> <li>❖ <a href="https://dst.gov.in/sites/default/files/Full%20Report_District-Level%20Climate%20Risk%20Assessment%20for%20India_Mapping%20Food%20and%20Drought%20Risks%20Using%20IPCC%20Framework.pdf">https://dst.gov.in/sites/default/files/Full%20Report_District-Level%20Climate%20Risk%20Assessment%20for%20India_Mapping%20Food%20and%20Drought%20Risks%20Using%20IPCC%20Framework.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/modules/geo.pdf">https://nidm.gov.in/PDF/modules/geo.pdf</a></li> <li>❖ <a href="https://www.nrsc.gov.in/sites/default/files/pdf/ebooks/QRG_on_GIS.pdf">https://www.nrsc.gov.in/sites/default/files/pdf/ebooks/QRG_on_GIS.pdf</a></li> <li>❖ <a href="https://nerdr.gov.in/hrva.php">https://nerdr.gov.in/hrva.php</a></li> </ul>	Hands-on Workshop, Software Demo	Dr. Ananda Kumar Das, IMD Dr. Gagandeep Singh, NIDM Ms. Jaya Rai, NIDM
14:45 – 15:00	<b>Tea Break</b>		
15:00 – 16:00	<p><b>Session 13: Data Analysis &amp; Interpretation for Risk Profiling &amp; Group Exercise</b></p> <p><b>Session Overview:</b> This interactive session focuses on the practical skills of data analysis and interpretation techniques for effective risk profiling. Participants engage in group exercises to apply these skills to decision-making and problem-solving.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.gfdrr.org/en/disaster-risk-profiles">https://www.gfdrr.org/en/disaster-risk-profiles</a></li> <li>❖ <a href="https://pmc.ncbi.nlm.nih.gov/articles/PMC4807925/">https://pmc.ncbi.nlm.nih.gov/articles/PMC4807925/</a></li> </ul>	Practical Exercise, Group Work, Presentation	Sh. Raj Vikram Singh and Akash Mishra, CDRI Dr. Pankaj Kumar, NIDM Dr. Subhojit Shaw, NIDM



Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://www.worldbank.org/en/news/feature/2021/06/14/taking-the-risk-out-of-using-disaster-risk-profiles">https://www.worldbank.org/en/news/feature/2021/06/14/taking-the-risk-out-of-using-disaster-risk-profiles</a></li> <li>❖ <a href="https://ndmindia.mha.gov.in/ndmi/viewUploadedDocument?uid=1103">https://ndmindia.mha.gov.in/ndmi/viewUploadedDocument?uid=1103</a></li> </ul>		
16:00 – 17:00	<p><b>Session 14: Flood: DRR Strategies</b></p> <p><b>Session Overview:</b> This session covers a wide range of flood DRR strategies, from flood hazard mapping and early warning systems to floodplain zoning and community preparedness. It also addresses structural and non-structural measures and effective risk communication.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://nidm.gov.in/pdf/guidelines/floods.pdf">https://nidm.gov.in/pdf/guidelines/floods.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/Handbook_NodalOfficer.pdf">https://nidm.gov.in/PDF/pubs/Handbook_NodalOfficer.pdf</a> (Section on Floods)</li> <li>❖ <a href="https://www.jalshakti-dowr.gov.in/flood-management-program">https://www.jalshakti-dowr.gov.in/flood-management-program</a></li> <li>❖ <a href="https://www.pib.gov.in/PressReleasePage.aspx?PRID=2135486">https://www.pib.gov.in/PressReleasePage.aspx?PRID=2135486</a></li> <li>❖ <a href="https://mohua.gov.in/upload/uploadfiles/files/SOP%20Urban%20flooding_5%20May%202017.pdf">https://mohua.gov.in/upload/uploadfiles/files/SOP%20Urban%20flooding_5%20May%202017.pdf</a></li> <li>❖ <a href="https://testbook.com/civil-engineering/flood-management-control-and-measures">https://testbook.com/civil-engineering/flood-management-control-and-measures</a></li> <li>❖ <a href="https://unfccc.int/climate-action/un-global-climate-action-awards/winning-projects/activity-database/community-based-flood-early-warning-system-india">https://unfccc.int/climate-action/un-global-climate-action-awards/winning-projects/activity-database/community-based-flood-early-warning-system-india</a></li> </ul>	Interactive Lecture, Case Studies	Dr. Ashutosh Sharma, IIT Roorkee Dr. Garima Aggarwal, NIDM Sh. Shreyash Dwivedi, NIDM
<b>Day 4: Thursday, 21 August 2025</b>			
<b>Module 4: Disaster Preparedness &amp; Mitigation Strategies</b>			
09:30 – 10:30	<p><b>Session 15: Principles &amp; Types of Early Warning Systems</b></p> <p><b>Session Overview:</b> This session details the essential components of effective Early Warning Systems (EWS), including risk detection, monitoring, forecasting, and communication. It covers multi-hazard systems and the importance of community involvement.</p> <p><b>Reading Links:</b></p>	Interactive Lecture, Case Studies, Panel Discussion	Dr. Pankaj Kumar, NIDM Sh. Sandeep K. Singh, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://preparecenter.org/topic/early-warning-systems/">https://preparecenter.org/topic/early-warning-systems/</a></li> <li>❖ <a href="https://www.undrr.org/terminology/early-warning-system">https://www.undrr.org/terminology/early-warning-system</a></li> <li>❖ <a href="https://link.springer.com/chapter/10.1007/978-3-030-98989-7_2">https://link.springer.com/chapter/10.1007/978-3-030-98989-7_2</a></li> <li>❖ <a href="https://sachet.ndma.gov.in/">https://sachet.ndma.gov.in/</a></li> <li>❖ <a href="https://www.unesco.org/en/disaster-risk-reduction/ews">https://www.unesco.org/en/disaster-risk-reduction/ews</a></li> <li>❖ <a href="https://www.ceew.in/sites/default/files/how-can-india-strengthen-climate-disaster-preparedness-with-effective-multi-hazard-early-warning-systems.pdf">https://www.ceew.in/sites/default/files/how-can-india-strengthen-climate-disaster-preparedness-with-effective-multi-hazard-early-warning-systems.pdf</a></li> </ul>		
10:30 – 10:45	Tea Break		
10:45 – 12:00	<p><b>Session 16: Structural &amp; Non-Structural Mitigation Measures</b></p> <p><b>Session Overview:</b> A deep dive into the different types of mitigation measures. This session differentiates between infrastructure strengthening (structural) and land-use planning and policy enforcement (non-structural) to enhance disaster resilience.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.iitk.ac.in/nicee/IITK-GSDMA/NS_E_002_31May2013.pdf">https://www.iitk.ac.in/nicee/IITK-GSDMA/NS_E_002_31May2013.pdf</a></li> <li>❖ <a href="https://www.undrr.org/terminology/structural-and-non-structural-measures">https://www.undrr.org/terminology/structural-and-non-structural-measures</a></li> <li>❖ <a href="https://dcentral.delhi.gov.in/sites/default/files/generic_multiple_files/prevention_and_mitigation_measures.pdf">https://dcentral.delhi.gov.in/sites/default/files/generic_multiple_files/prevention_and_mitigation_measures.pdf</a></li> <li>❖ <a href="https://www.mha.gov.in/sites/default/files/NPDM-101209.pdf">https://www.mha.gov.in/sites/default/files/NPDM-101209.pdf</a></li> <li>❖ <a href="https://cdri.world/upload/pages/1785232287906510_202312140503undrr_cdri_global_methodology_for_infrastructure_review.pdf">https://cdri.world/upload/pages/1785232287906510_202312140503undrr_cdri_global_methodology_for_infrastructure_review.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/modules/urban.pdf">https://nidm.gov.in/PDF/modules/urban.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/EQ%20North%20East.pdf">https://nidm.gov.in/PDF/pubs/EQ%20North%20East.pdf</a></li> </ul>	Lecture, Best Practices, Examples	Dr. Amir Ali Khan, NIDM Mr. Prateek Roshan, NIDM Ms. Azra Mahwash, NIDM
12:00 – 13:00	<p><b>Session 17: Forest Fire: DRR Strategies</b></p> <p><b>Session Overview:</b> This session focuses on a holistic approach to forest fire management. It covers fire prevention, early detection, community</p>	Interactive Lecture, Case Studies	Sh. Nishant Verma, National Authority CAMPA, MoEFCC Sh. Shiv Narayan Sidh, NIDM Dr. Kundan Deval, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<p>engagement, and coordinated emergency response to reduce risks from this recurring hazard.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.globalforestwatch.org/">https://www.globalforestwatch.org/</a></li> <li>❖ <a href="https://www.wri.org/insights/global-trends-forest-fires">https://www.wri.org/insights/global-trends-forest-fires</a></li> <li>❖ <a href="https://icfre.gov.in/UserFiles/File/Books/FRI-Forest-Fire-in-India_26July19.pdf">https://icfre.gov.in/UserFiles/File/Books/FRI-Forest-Fire-in-India_26July19.pdf</a></li> <li>❖ <a href="https://ncsffm.bicfri.in/climate-change">https://ncsffm.bicfri.in/climate-change</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Reports/World_Bank_Piyush_Dogra.pdf">https://ndma.gov.in/sites/default/files/PDF/Reports/World_Bank_Piyush_Dogra.pdf</a></li> <li>❖ <a href="https://www.icfre.org/institute_update_file/institute_update961.pdf">https://www.icfre.org/institute_update_file/institute_update961.pdf</a></li> </ul>		
13:00 – 14:00	<b>Lunch Break</b>		
14:00 – 15:15	<p><b>Session 18: Mainstreaming DRR into Higher Education &amp; Institutional Policy</b></p> <p><b>Session Overview:</b> This session explores how to integrate disaster risk reduction (DRR) into the curriculum and policies of higher education institutions. Participants will learn about strategies to embed DRR principles into academic programs, research, and campus-wide institutional policies, fostering a more resilient and aware generation of future leaders and practitioners.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://iddrr.undrr.org/publication/emerging-trends-disaster-risk-reduction-and-climate-change-adaptation-higher-education">https://iddrr.undrr.org/publication/emerging-trends-disaster-risk-reduction-and-climate-change-adaptation-higher-education</a></li> <li>❖ <a href="https://ndmindia.mha.gov.in/ndmi/viewUploadDocument?uid=NEW157">https://ndmindia.mha.gov.in/ndmi/viewUploadDocument?uid=NEW157</a></li> </ul>	<p>Lecture, Discussion, Panel Discussion</p>	<p>Dr Preeti Soni, NIDM Sh. Shiv Narayan Sidh, NIDM Dr. Ganesh N. Chaudhary, NIDM Ms. Koyal Sindhu, NIDM Ms. Ritu, NIDM</p>
15:15 – 15:45	<b>Tea Break</b>		
15:45 – 17:00	<p><b>Session 19: Disaster Education &amp; Public Awareness Campaigns</b></p> <p><b>Session Overview:</b> This session focuses on effective risk communication and the design of public awareness campaigns. It explores how to use educational materials and media outreach to raise awareness and foster a positive behavior change in communities.</p>	<p>Presentation, Case Studies, Group Work</p>	<p>Dr. Rajib Dasgupta, JNU Dr. Preeti Soni, NIDM Dr. Ganesh N. Choudhary, NIDM</p>

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<b>Reading Links:</b> <ul style="list-style-type: none"> <li>❖ <a href="https://www.ifrc.org/our-work/disasters-climate-and-crises/climate-smart-disaster-risk-reduction/PAPE">https://www.ifrc.org/our-work/disasters-climate-and-crises/climate-smart-disaster-risk-reduction/PAPE</a></li> <li>❖ <a href="https://www.preventionweb.net/files/61592_papekeymessagetooleng2018.pdf">https://www.preventionweb.net/files/61592_papekeymessagetooleng2018.pdf</a></li> <li>❖ <a href="https://www.sciencedirect.com/topics/social-sciences/disaster-education">https://www.sciencedirect.com/topics/social-sciences/disaster-education</a></li> <li>❖ <a href="https://www.unicef.org/india/what-we-do/education-disaster-risk-reduction-social-cohesion">https://www.unicef.org/india/what-we-do/education-disaster-risk-reduction-social-cohesion</a></li> <li>❖ <a href="https://cdnbbsr.s3waas.gov.in/s3kv03f32614ba98288e85e9833e8a523e/uploads/2024/08/2024082423.pdf">https://cdnbbsr.s3waas.gov.in/s3kv03f32614ba98288e85e9833e8a523e/uploads/2024/08/2024082423.pdf</a></li> <li>❖ <a href="https://link.springer.com/chapter/10.1007/978-3-540-69970-5_26">https://link.springer.com/chapter/10.1007/978-3-540-69970-5_26</a></li> </ul>		
17:00 – 17:30	<b>Plenary Discussion &amp; Day Wrap-up</b>	Reflection on learnings, Q&A	Course Coordinator, Rapporteur
<b>Day 5: Friday, 22 August 2025</b>			
<b>Module 5: Disaster Response Operations</b>			
09:30 - 10:00	<b>Daily Precap &amp; Objectives Review</b>	Quick recap of Day 3 and 4, overview of Day 5 objectives	Course Coordinator
10:00 – 11:15	<p><b>Session 20: Principles of Emergency Response &amp; Incident Response System (IRS)</b></p> <p><b>Session Overview:</b> This session provides an overview of the core principles of the Incident Response System (IRS). It covers command and control, multi-agency collaboration, and resource allocation to ensure a coordinated and effective rapid response during a disaster.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/Capacity_Building/Ops_Comm/IRS">https://ndma.gov.in/Capacity_Building/Ops_Comm/IRS</a></li> <li>❖ <a href="https://cachar.assam.gov.in/sites/default/files/public_utility/IRS%20Handbook.pdf">https://cachar.assam.gov.in/sites/default/files/public_utility/IRS%20Handbook.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/modules/irs-1.pdf">https://nidm.gov.in/PDF/modules/irs-1.pdf</a></li> </ul>	Interactive Lecture, Flow charts, Case Studies, Role-playing	Sh. Gourav Sharma, NDRF Sh. Shekher Chaturvedi, NIDM Ms. Amreen Khan, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://sikkimjudicialacademy.nic.in/sites/default/files/PPTs/Incident%20Response%20System.pdf">https://sikkimjudicialacademy.nic.in/sites/default/files/PPTs/Incident%20Response%20System.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/Modules/Module%20-%20Incident%20Response%20System%20for%20NIDM.pdf">https://nidm.gov.in/PDF/Modules/Module%20-%20Incident%20Response%20System%20for%20NIDM.pdf</a></li> <li>❖ <a href="https://gidm.gujarat.gov.in/sites/default/files/additional_document/Presentation-2.pdf">https://gidm.gujarat.gov.in/sites/default/files/additional_document/Presentation-2.pdf</a></li> </ul>		
11:15 - 11:45	Tea Break		
11:45- 13:00	<p><b>Session 21: Practical Aspects to Enhance Preparedness &amp; Response during Disasters</b></p> <p><b>Session Overview:</b> This session provides practical guidance on enhancing disaster preparedness and improving response capabilities. It will cover a range of actionable strategies, from developing effective communication protocols and conducting mock drills to utilizing modern technology and coordinating resources. The aim is to equip participants with the skills to effectively manage and mitigate the impact of disasters.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.fema.gov/pdf/areyouready/basic_preparedness.pdf">https://www.fema.gov/pdf/areyouready/basic_preparedness.pdf</a></li> <li>❖ <a href="https://www.redcross.org/get-help/how-to-prepare-for-emergencies/make-a-plan.html">https://www.redcross.org/get-help/how-to-prepare-for-emergencies/make-a-plan.html</a></li> <li>❖ <a href="https://www.un-spider.org/risks-and-disasters/emergency-and-disaster-management">https://www.un-spider.org/risks-and-disasters/emergency-and-disaster-management</a></li> <li>❖ <a href="https://civil-protection-humanitarian-aid.ec.europa.eu/what/humanitarian-aid/disaster-preparedness_en">https://civil-protection-humanitarian-aid.ec.europa.eu/what/humanitarian-aid/disaster-preparedness_en</a></li> <li>❖ <a href="https://asdma.gov.in/download/modules/Community%20Based%20Disaster%20Preparedness-Peripheral%20Level.pdf">https://asdma.gov.in/download/modules/Community%20Based%20Disaster%20Preparedness-Peripheral%20Level.pdf</a></li> </ul>	Interactive Lecture, Case Studies	Sh. Randeep K. Rana, NIDM Sh. Arvind Kavia, NIDM Ms. Koyal Sindhu, NIDM
13:00 - 14:00	Lunch		
14:00 - 15:30	<p><b>Session 22: Cyclone: DRR Strategies</b></p> <p><b>Session Overview:</b> This session focuses on cyclone-specific DRR strategies, from early warning systems and storm surge mitigation to evacuation planning and community preparedness. It also</p>	Interactive Lecture, Case Studies	Dr. D.R. Pattanaik, IMD Dr. Somashree Das, NIDM Dr. Subhojit Shaw, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<p>addresses infrastructure resilience and disaster communication.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://nidm.gov.in/PDF/pubs/NDMA/4.pdf">https://nidm.gov.in/PDF/pubs/NDMA/4.pdf</a></li> <li>❖ <a href="https://www.preventionweb.net/publication/cyclone-hudhud-strategies-and-lessons-preparing-better-and-strengthening-risk">https://www.preventionweb.net/publication/cyclone-hudhud-strategies-and-lessons-preparing-better-and-strengthening-risk</a></li> <li>❖ <a href="https://gidm.gujarat.gov.in/sites/default/files/educate_your_self_document/Training%20Module%20on%20Cyclone%20Risk%20Management_1.pdf">https://gidm.gujarat.gov.in/sites/default/files/educate_your_self_document/Training%20Module%20on%20Cyclone%20Risk%20Management_1.pdf</a></li> <li>❖ <a href="https://iopscience.iop.org/article/10.1088/1755-1315/80/1/012054/pdf">https://iopscience.iop.org/article/10.1088/1755-1315/80/1/012054/pdf</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2225603220300576">https://www.sciencedirect.com/science/article/pii/S2225603220300576</a></li> <li>❖ <a href="https://www.osdma.org/national-cyclone-risk-mitigation-project/#gsc.tab=0">https://www.osdma.org/national-cyclone-risk-mitigation-project/#gsc.tab=0</a></li> </ul>		
15:30 - 15:45	<b>Tea Break</b>		
15:30 - 16:00	<b>Plenary Discussion &amp; Day Wrap-up</b>	Reflection on learnings, Q&A	Course Coordinator, Rapporteur
<b>Day 6: Saturday, 23 August 2025</b>			
<b>Field Visit</b>			
09:30 – 11:30	<p><b>Session 23: Field Visit: Exposure to MHA EOC Room</b></p> <p><b>Session Overview:</b> A visit to the MHA Emergency Operations Centre (EOC) to provide participants with real-world exposure to a command center. They gain insight into how information is managed, resources are deployed, and coordination is facilitated during a crisis.</p>	Practical Exposure, Guided Tour, Q&A, On-site Briefing	MHA EOC Officials, NIDM Faculty, Logistics Team Dr Pankaj Kumar, NIDM Dr Gagandeep Singh, NIDM
11:30 - 17:00	<p><b>Session 24: Field Visit: 8<sup>th</sup> BN NDRF, Kamla Nehru, Ghaziabad</b></p> <p><b>Session Overview:</b> An immersive field visit to the NDRF provides participants with a first-hand understanding of a premier</p>	CPR demonstration, Search & rescue operations	NDRF Team Dr Pankaj Kumar, NIDM Dr Gagandeep Singh, NIDM



Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	response force's capabilities. This session offers practical exposure to multi-hazard response operations and specialized rescue techniques.		
<b>Day 7: Monday, 25 August 2025</b>			
<b>09:30 – 10:00</b>	<b>Daily Precap &amp; Objectives Review</b>	Quick recap of previous week, overview of Day 7 objectives	Course Coordinator
<b>Module 5: Disaster Response Operations (Contd.)</b>			
<b>10:00 – 11:15</b>	<p><b>Session 25: Integrated Control Room for Emergency Response (ICR-ER) &amp; Coordination</b></p> <p><b>Session Overview:</b> This session provides an in-depth look at the operational aspects of an Integrated Control Room for Emergency Response (ICR-ER). It focuses on the core principles of a command center, and how incident coordination and multi-agency collaboration are vital for efficient decision-making and operational planning in a crisis.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/EOC_Guidelines_Oct_2024.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/EOC_Guidelines_Oct_2024.pdf</a></li> <li>❖ <a href="https://emergency.ucmerced.edu/emergency-operations-center">https://emergency.ucmerced.edu/emergency-operations-center</a></li> <li>❖ <a href="https://d1wqtxts1xzle7.cloudfront.net/39858015/EoC-Design-Operation_Management-RK_Dave-submission-libre.pdf">https://d1wqtxts1xzle7.cloudfront.net/39858015/EoC-Design-Operation_Management-RK_Dave-submission-libre.pdf</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S1995764515000838">https://www.sciencedirect.com/science/article/pii/S1995764515000838</a></li> <li>❖ <a href="https://web.adrc.asia/aboutus/vrdata/finalreport/2012B_IND_fr.pdf">https://web.adrc.asia/aboutus/vrdata/finalreport/2012B_IND_fr.pdf</a></li> <li>❖ <a href="https://www.mdpi.com/2071-1050/15/14/11101">https://www.mdpi.com/2071-1050/15/14/11101</a></li> <li>❖ <a href="https://cskt.org/wp-content/uploads/2024/11/CSKT_EOP_FINAL.pdf">https://cskt.org/wp-content/uploads/2024/11/CSKT_EOP_FINAL.pdf</a></li> </ul>	Presentation, EOC Best Practices, Discussion	Sh. Govind Prasad Uniyal, DIG (ICR-ER), MHA Dr. Pankaj Kumar, NIDM Dr. Gagandeep Singh, NIDM
<b>11:15 – 11:30</b>	<b>Tea Break</b>		

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
11:30 – 12:45	<p><b>Session 26: Rapid Damage &amp; Needs Assessment (RDANA)</b></p> <p><b>Session Overview:</b> This session covers the methodology of conducting a Rapid Damage &amp; Needs Assessment (RDANA) following a disaster. It covers data collection, damage assessment, and impact analysis to inform resource prioritization and decision support for relief.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://nidm.gov.in/PDF/pubs/sop_pdna.pdf">https://nidm.gov.in/PDF/pubs/sop_pdna.pdf</a></li><li>❖ <a href="https://openknowledge.worldbank.org/entities/publication/04642498-203f-57c6-a23f-57c66c84ff81">https://openknowledge.worldbank.org/entities/publication/04642498-203f-57c6-a23f-57c66c84ff81</a></li><li>❖ <a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4634635">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4634635</a></li><li>❖ <a href="https://www.preventionweb.net/files/61901_postdistasterrecoveryneedsassessmen.pdf">https://www.preventionweb.net/files/61901_postdistasterrecoveryneedsassessmen.pdf</a></li><li>❖ <a href="https://onlinelibrary.wiley.com/doi/epdf/10.2202/1944-4079.1097">https://onlinelibrary.wiley.com/doi/epdf/10.2202/1944-4079.1097</a></li><li>❖ <a href="https://journals.lww.com/aoam/fulltext/2015/14030/management_of_disasters_and_complex_emergencies_in.1.aspx">https://journals.lww.com/aoam/fulltext/2015/14030/management_of_disasters_and_complex_emergencies_in.1.aspx</a></li></ul>	Interactive Lecture, Simulation Exercise, Debrief	Sh. Sarbjit Singh Sahota, UNICEF Sh. Shiv Narayan Sidh, NIDM Dr. Ganesh Narayan Choudhary, NIDM
12:45 – 13:30	Lunch Break		
Module 6: Disaster Recovery & Reconstruction			
13:30 – 14:30	<p><b>Session 27: Principles of Post-Disaster Recovery &amp; Rehabilitation</b></p> <p><b>Session Overview:</b> This session lays out the fundamental principles of post-disaster recovery and rehabilitation. It covers resilience building, community participation, and livelihood restoration as key components of a holistic recovery process.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.preventionweb.net/files/32306_32306guametodolgicaparaprocesosdepl.pdf">https://www.preventionweb.net/files/32306_32306guametodolgicaparaprocesosdepl.pdf</a></li><li>❖ <a href="https://www.undp.org/sites/g/files/zskgke326/files/publications/UNDP_Guidance_Note_Disaster%20Recovery_final.pdf">https://www.undp.org/sites/g/files/zskgke326/files/publications/UNDP_Guidance_Note_Disaster%20Recovery_final.pdf</a></li><li>❖ <a href="https://ruor.uottawa.ca/server/api/core/bitstreams/03fbfcdf-a664-485f-b72f-47312a53d5cd/content">https://ruor.uottawa.ca/server/api/core/bitstreams/03fbfcdf-a664-485f-b72f-47312a53d5cd/content</a></li></ul>	Lecture, Case Studies	Dr. Amit Tandon Dr. Ajinder Walia, NIDM Ms. Annyesha Purkait, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://journals.sagepub.com/doi/pdf/10.1177/09754253221130405">https://journals.sagepub.com/doi/pdf/10.1177/09754253221130405</a></li> <li>❖ <a href="https://www.tandfonline.com/doi/full/10.1080/15575330.2012.730538">https://www.tandfonline.com/doi/full/10.1080/15575330.2012.730538</a></li> <li>❖ <a href="https://www.tandfonline.com/doi/full/10.1080/01944363.2014.989399">https://www.tandfonline.com/doi/full/10.1080/01944363.2014.989399</a></li> <li>❖ <a href="http://www.grif.umontreal.ca/pages/i-rec%20papers/annie.pdf">http://www.grif.umontreal.ca/pages/i-rec%20papers/annie.pdf</a></li> </ul>		
14:30 – 14:45	<b>Tea Break</b>		
14:45 – 15:45	<p><b>Session 28: GLOF: Risk and Impact</b></p> <p><b>Session Overview:</b> A specialized session on Glacial Lake Outburst Floods (GLOFs), a growing threat exacerbated by climate change. It analyzes glacial lake formation, ice dam failure, and the subsequent flood hazard to downstream communities, covering risk assessment and early warning systems.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/Guidelines-on-Management-of-GLOFs.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/Guidelines-on-Management-of-GLOFs.pdf</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/TrgReports/2023/October/Report_20October2023cg.pdf">https://nidm.gov.in/PDF/TrgReports/2023/October/Report_20October2023cg.pdf</a></li> <li>❖ <a href="https://www.adaptation-undp.org/sites/default/files/resources/glof-ii-drm_handbook.pdf">https://www.adaptation-undp.org/sites/default/files/resources/glof-ii-drm_handbook.pdf</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Sikkim_Conclave/Session%205/9%20sikkim%20GLOF%20South%20Lhonak%20Lake%20Case%20Study.pdf">https://ndma.gov.in/sites/default/files/PDF/Sikkim_Conclave/Session%205/9%20sikkim%20GLOF%20South%20Lhonak%20Lake%20Case%20Study.pdf</a></li> <li>❖ <a href="https://bhuvar.nrs.gov.in/nhpfs/pdf/NRSC_SuruGlacialLake_GLOF_Risk_Assessment_Report.pdf">https://bhuvar.nrs.gov.in/nhpfs/pdf/NRSC_SuruGlacialLake_GLOF_Risk_Assessment_Report.pdf</a></li> <li>❖ <a href="https://www.researchgate.net/publication/340097371_Glacial_Lake_Outburst_Flood_GLOF_Hazard_Downstream_Impact_and_Risk_over_the_Indian_Himalayas">https://www.researchgate.net/publication/340097371_Glacial_Lake_Outburst_Flood_GLOF_Hazard_Downstream_Impact_and_Risk_over_the_Indian_Himalayas</a></li> </ul>	Case Study of Lhonak/Mitigation measures by Sikkim SDMA	Sh. Prabhakar Rai, SSDMA Dr. Ravinder Singh Bohara, NIDM Ms. Stanzin Tsela, NIDM
15:45 – 16:45	<p><b>Session 29: Livelihoods Restoration &amp; Psychosocial Support in Recovery</b></p> <p><b>Session Overview:</b> A crucial session on two interconnected aspects of recovery: restoring livelihood recovery and providing psychosocial support. It covers strategies for mental health,</p>	Presentation, Community Examples, Group Discussion	Dr. C. P. Mohan (Online) Dr Ajinder walia, NIDM Ms. Pragati Mishra, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<p>trauma counseling, and social reintegration after a disaster.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/pssmhsguidlines.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/pssmhsguidlines.pdf</a></li> <li>❖ <a href="https://www.undp.org/india/publications/guidance-note-recovery-livelihood">https://www.undp.org/india/publications/guidance-note-recovery-livelihood</a></li> <li>❖ <a href="https://globalplatform.undrr.org/conference-event/ts4-restoring-livelihood-solutions-disaster-induced-displacement-and-resilient">https://globalplatform.undrr.org/conference-event/ts4-restoring-livelihood-solutions-disaster-induced-displacement-and-resilient</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2590061724000814">https://www.sciencedirect.com/science/article/pii/S2590061724000814</a></li> <li>❖ <a href="https://onlinelibrary.wiley.com/doi/full/10.1002/sd.2013">https://onlinelibrary.wiley.com/doi/full/10.1002/sd.2013</a></li> <li>❖ <a href="https://link.springer.com/article/10.1057/s41271-016-0009-0">https://link.springer.com/article/10.1057/s41271-016-0009-0</a></li> <li>❖ <a href="https://www.tandfonline.com/doi/full/10.1080/09540260601037961">https://www.tandfonline.com/doi/full/10.1080/09540260601037961</a></li> <li>❖ <a href="https://onlinelibrary.wiley.com/doi/full/10.1002/sd.2013">https://onlinelibrary.wiley.com/doi/full/10.1002/sd.2013</a></li> </ul>		
16:45 – 17:15	<b>Plenary Discussion &amp; Day Wrap-up</b>	Reflection on learnings, Q&A	Course Coordinator, Rapporteur
<b>Cultural Evening</b>			
<b>Day 8: Tuesday, 26 August 2025</b>			
09:30 – 10:00	<b>Daily Precap &amp; Objectives Review</b>	Quick recap of Day 7, overview of Day 8 objectives	Course Coordinator
<b>Module 7: Climate Change Adaptation &amp; Resilience Building</b>			
10:00 – 11:00	<p><b>Session 30: Climate Change and its repercussions as Amplification of Disaster Risks</b></p> <p><b>Session Overview:</b> This session explores the scientific link between global warming and disaster risk. It discusses how extreme weather events and a rise in disaster frequency lead to risk amplification and increased vulnerability.</p> <p><b>Reading Links:</b></p>	Lecture, Scientific Data, Discussion	<p>Dr. Saurabh Dalal, WHO India</p> <p>Sh. Shiv Narayan Sidh, NIDM</p> <p>Ms. Atisha Sood, NIDM</p>

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://www.preventionweb.net/understanding-disaster-risk/risk-drivers/climate-change">https://www.preventionweb.net/understanding-disaster-risk/risk-drivers/climate-change</a></li> <li>❖ <a href="https://www.undrr.org/implementing-sendai-framework/drr-focus-areas/climate-action-and-disaster-risk-reduction">https://www.undrr.org/implementing-sendai-framework/drr-focus-areas/climate-action-and-disaster-risk-reduction</a></li> <li>❖ <a href="https://www.ipcc.ch/apps/njlite/srex/njlite_download.php?id=6184">https://www.ipcc.ch/apps/njlite/srex/njlite_download.php?id=6184</a></li> <li>❖ <a href="https://www.undrr.org/publication/policy-brief-disaster-risk-reduction-and-climate-change">https://www.undrr.org/publication/policy-brief-disaster-risk-reduction-and-climate-change</a></li> <li>❖ <a href="https://nidm.gov.in/PDF/Modules/RuralModule_2020.pdf">https://nidm.gov.in/PDF/Modules/RuralModule_2020.pdf</a></li> <li>❖ <a href="https://ksdma.karnataka.gov.in/storage/pdf-files/DC%20Handbook%20on%20Climate%20Resilant%20and%20DRR.pdf">https://ksdma.karnataka.gov.in/storage/pdf-files/DC%20Handbook%20on%20Climate%20Resilant%20and%20DRR.pdf</a></li> </ul>		
11:00 – 11:30	Tea Break		
11:30 – 12:30	<p><b>Session 31: Climate Change Adaptation (CCA) Strategies &amp; Nature-Based Solutions (NbS)</b></p> <p><b>Session Overview:</b> This session focuses on proactive strategies for climate change adaptation. It explores Nature-Based Solutions (NbS) as a key tool for resilience building, including ecosystem restoration and sustainable agriculture.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.adb.org/sites/default/files/publication/801226/nature-based-solutions-cca-drm.pdf">https://www.adb.org/sites/default/files/publication/801226/nature-based-solutions-cca-drm.pdf</a></li> <li>❖ <a href="https://climate-adapt.eea.europa.eu/en/eu-adaptation-policy/key-eu-actions/NbS">https://climate-adapt.eea.europa.eu/en/eu-adaptation-policy/key-eu-actions/NbS</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2772411522000349">https://www.sciencedirect.com/science/article/pii/S2772411522000349</a></li> <li>❖ <a href="https://iefworld.org/node/1738">https://iefworld.org/node/1738</a></li> <li>❖ <a href="https://www.worldbank.org/en/news/feature/2022/05/19/what-you-need-to-know-about-nature-based-solutions-to-climate-change">https://www.worldbank.org/en/news/feature/2022/05/19/what-you-need-to-know-about-nature-based-solutions-to-climate-change</a></li> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Reports/Guidebook%20on%20NAP%20CC.pdf">https://ndma.gov.in/sites/default/files/PDF/Reports/Guidebook on NAP CC.pdf</a></li> </ul>	Interactive Lecture, Case Examples	Prof. Surya Prakash, NIDM Sh. Moses Prakasham, NIDM
12:30 – 13:30	Lunch Break		

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
13:30 – 14:30	<p><b>Session 32: Risk Financing, Disaster Insurance &amp; Innovative Funding for Resilience &amp; Group Discussion</b></p> <p><b>Session Overview:</b> This session introduces participants to the financial aspects of DRR. It covers disaster insurance, catastrophe bonds, and public-private partnerships as key mechanisms for risk financing and building financial resilience.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.worldbank.org/en/programs/disaster-risk-financing-and-insurance-program">https://www.worldbank.org/en/programs/disaster-risk-financing-and-insurance-program</a></li><li>❖ <a href="https://g20drrwg.preventionweb.net/2024/media/102120/download%3FstartDownload=20241118">https://g20drrwg.preventionweb.net/2024/media/102120/download%3FstartDownload=20241118</a></li><li>❖ <a href="https://www.financialprotectionforum.org/what-is-disaster-risk-finance-drf">https://www.financialprotectionforum.org/what-is-disaster-risk-finance-drf</a></li><li>❖ <a href="https://www.adb.org/sites/default/files/publication/646156/adb-pb2020-5.pdf">https://www.adb.org/sites/default/files/publication/646156/adb-pb2020-5.pdf</a></li><li>❖ <a href="https://nidm.gov.in/PDF/pubs/WGR_NIDMandIII_2021.pdf">https://nidm.gov.in/PDF/pubs/WGR_NIDMandIII_2021.pdf</a></li><li>❖ <a href="https://cdri.world/upload/biennial/CH4.7-MI.pdf">https://cdri.world/upload/biennial/CH4.7-MI.pdf</a></li><li>❖ <a href="https://sdgfinance.undp.org/sites/default/files/2025-01/Inclusive%20insurance%20and%20risk%20financing%20in%20India%20-%20Snapshot%20and%20way%20forward%202024.pdf">https://sdgfinance.undp.org/sites/default/files/2025-01/Inclusive%20insurance%20and%20risk%20financing%20in%20India%20-%20Snapshot%20and%20way%20forward%202024.pdf</a></li></ul>	Lecture, Case Studies, Group Discussion	Sh. Shishir Aggarwal, NDMA Sh. Rohit Kumar, NIDM Dr. Kundan Deval, NIDM
14:30 – 15:00	Tea Break		
Module 8: Cross-Cutting Issues & Mainstreaming DRR			
15:00 – 15:45	<p><b>Session 33: Gender &amp; Inclusion in DRR</b></p> <p><b>Session Overview:</b> A vital session on ensuring that DRR strategies are rooted in equality and equity. It addresses the different impacts of disasters on vulnerable groups and highlights the importance of their active participation in all stages of disaster management.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.gfdrr.org/en/inclusive-drm">https://www.gfdrr.org/en/inclusive-drm</a></li><li>❖ <a href="https://www.undrr.org/publication/accelerating-action-gender-equality-disaster-risk-reduction-2030">https://www.undrr.org/publication/accelerating-action-gender-equality-disaster-risk-reduction-2030</a></li><li>❖ <a href="https://nidm.gov.in/pdf/modules/gender.pdf">https://nidm.gov.in/pdf/modules/gender.pdf</a></li></ul>	Interactive Lecture, Case Studies	Dr. Ajinder Walia, NIDM Sh. Shiv Narayan Sidh, NIDM Ms. Pragati Mishra, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://ndma.gov.in/sites/default/files/PDF/Guidelines/DIDRR.pdf">https://ndma.gov.in/sites/default/files/PDF/Guidelines/DIDRR.pdf</a></li> <li>❖ <a href="https://www.gfdr.org/sites/default/files/publication/gender-equality-disaster-recovery.PDF">https://www.gfdr.org/sites/default/files/publication/gender-equality-disaster-recovery.PDF</a></li> <li>❖ <a href="https://wrd.unwomen.org/sites/default/files/2021-11/546_genderdisastersourcebook_0.pdf">https://wrd.unwomen.org/sites/default/files/2021-11/546_genderdisastersourcebook_0.pdf</a></li> <li>❖ <a href="https://www.unisdr.org/files/547_gendergoodpractices.pdf">https://www.unisdr.org/files/547_gendergoodpractices.pdf</a></li> <li>❖ <a href="https://www.undrr.org/media/89321/download?startDownload=20250604">https://www.undrr.org/media/89321/download?startDownload=20250604</a></li> </ul>		
15:45 – 16:30	<p><b>Session 34: DRR in Development Planning &amp; SDGs: Mainstreaming Strategies Workshop</b></p> <p><b>Session Overview:</b> A workshop on mainstreaming DRR into broader development policies and plans. It explores how to align DRR efforts with the Sustainable Development Goals (SDGs) to build resilience and enhance capacity development.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://sdgs.un.org/goals">https://sdgs.un.org/goals</a></li> <li>❖ <a href="https://www.preventionweb.net/sustainable-development-and-drr/sdgs-targets-related-disaster-risk">https://www.preventionweb.net/sustainable-development-and-drr/sdgs-targets-related-disaster-risk</a></li> <li>❖ <a href="https://www.preventionweb.net/sustainable-development-and-drr/sustainable-development-and-drr">https://www.preventionweb.net/sustainable-development-and-drr/sustainable-development-and-drr</a></li> <li>❖ <a href="https://sdgs.un.org/topics/disaster-risk-reduction">https://sdgs.un.org/topics/disaster-risk-reduction</a></li> </ul>	Workshop, Group Exercise, Brainstorming	Sh. Shiv Narayan Sidh, NIDM, Ms. Atisha Sood, NIDM
16:30 - 17:15	<p><b>Session 35: Stress Management in Post-Disaster Scenarios</b></p> <p><b>Session Overview:</b> This session focuses on the psychological impact of disasters on both survivors and first responders. It covers practical coping strategies, trauma counselling, and psychosocial support for emotional recovery.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://emergency.unhcr.org/sites/default/files/Strtess%20Management-textbook.pdf">https://emergency.unhcr.org/sites/default/files/Strtess%20Management-textbook.pdf</a></li> </ul>	Interactive Lecture, Practical Tips, Q&A	Dr. Jugal Kishore, VMMC & SJH Ms. Nazia Khan, NIDM Ms. Stanzin Tsela, NIDM

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<ul style="list-style-type: none"> <li>❖ <a href="https://www.qld.gov.au/community/disasters-emergencies/disasters/mental-health/managing-stress-after">https://www.qld.gov.au/community/disasters-emergencies/disasters/mental-health/managing-stress-after</a></li> <li>❖ <a href="https://www.who.int/publications/i/item/9789241548205">https://www.who.int/publications/i/item/9789241548205</a></li> <li>❖ <a href="https://www.preventionweb.net/publication/stress-management-disasters">https://www.preventionweb.net/publication/stress-management-disasters</a></li> <li>❖ <a href="https://journals.sagepub.com/doi/pdf/10.4103/0253-7176.162915">https://journals.sagepub.com/doi/pdf/10.4103/0253-7176.162915</a></li> <li>❖ <a href="https://www.tandfonline.com/doi/epdf/10.1080/01488370802086526?needAccess=true">https://www.tandfonline.com/doi/epdf/10.1080/01488370802086526?needAccess=true</a></li> </ul>		
17:15 – 17:30	<b>Plenary Discussion &amp; Day Wrap-up</b>	Reflection on learnings, Q&A	Course Coordinator, Rapporteur
<b>Day 9: Wednesday, 27 August 2025</b>			
09:30 – 10:00	<b>Daily Precap &amp; Objectives Review</b>	Quick recap of Day 8, overview of Day 9 objectives	Course Coordinator
10:00 – 10:45	<p><b>Session 36: Role of Technology &amp; Innovation in DRR</b></p> <p><b>Session Overview:</b> This session explores the role of data analytics and innovative solutions in enhancing disaster monitoring, early warning systems, and overall DRR capacity</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S259006171930033X">https://www.sciencedirect.com/science/article/pii/S259006171930033X</a></li> <li>❖ <a href="https://www.undrr.org/publication/documents-and-publications/special-report-use-technology-disaster-risk-reduction">https://www.undrr.org/publication/documents-and-publications/special-report-use-technology-disaster-risk-reduction</a></li> <li>❖ <a href="https://www.adb.org/sites/default/files/publication/664501/tech-innovation-disaster-risk-mgt-financing.pdf">https://www.adb.org/sites/default/files/publication/664501/tech-innovation-disaster-risk-mgt-financing.pdf</a></li> </ul>	Presentation, Tech Demos/Video s, Interactive Q&A	Dr. Amarjeet Singh, NIDM Ms. Karishma Chaudhary, NIDM
11:15 – 12:00	<p><b>Session 37: Applied GIS: Case Studies in Disaster Risk Reduction and Management</b></p> <p><b>Session Overview:</b> This session will explore the practical applications of Geographic Information</p>	Lecture, Discussion, Panel Discussion	Dr. Gagandeep Singh, NIDM Dr. Vikrant Maurya, NIDM



Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
	<p>Systems (GIS) in disaster risk reduction and management. Through various case studies, it will demonstrate how spatial data and mapping tools can be used for risk profiling, vulnerability assessment, and making informed decisions during all phases of the disaster management cycle.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.mdpi.com/2071-1050/13/22/12850">https://www.mdpi.com/2071-1050/13/22/12850</a></li><li>❖ <a href="https://mail.etasr.com/index.php/ETASR/article/view/5377/2952">https://mail.etasr.com/index.php/ETASR/article/view/5377/2952</a></li><li>❖ <a href="https://mail.etasr.com/index.php/ETASR/article/view/5377/2952">https://mail.etasr.com/index.php/ETASR/article/view/5377/2952</a></li></ul>		
12:00-13:00	<p><b>Session 38: Intangible Cultural Heritage &amp; DRR</b></p> <p><b>Session Overview:</b> A unique session exploring the role of traditional knowledge and cultural practices in disaster risk reduction. It highlights how preserving intangible cultural heritage can strengthen community resilience and provide valuable coping mechanisms.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"><li>❖ <a href="https://www.irdrinternational.org/news/780">https://www.irdrinternational.org/news/780</a></li><li>❖ <a href="https://ich.unesco.org/en/lists">https://ich.unesco.org/en/lists</a></li><li>❖ <a href="https://www.unesco.org/en/disaster-risk-reduction/culture-sites">https://www.unesco.org/en/disaster-risk-reduction/culture-sites</a></li></ul>	Interactive Lecture, Case Studies on local knowledge, Group Discussion	Dr. Kamalika Bose, Heritage Synergies India Dr Arkaprabha Sarkar, NIDM Ms. Annyesha Purkait, NIDM
13:00 - 14:00	Lunch Break		
Module 9: Capstone Project & Synthesis			
14:00 – 17:00	<p><b>Session 39: Capstone Project: Guided Plan Development (Group Work)</b></p> <p><b>Session Overview:</b> This dedicated series of sessions allows participants to apply their learning by developing and presenting a group Capstone Project. They receive guidance from faculty and peer feedback to refine their project plans.</p>	Facilitated Group Work, Mentor Support, Collaborative Planning	Sh. Shiv Narayan Sidh Sh. Shekher Chaturvedi Dr. Sushma Guleria Dr. Pankaj Kumar Ms. Atisha Sood Dr. Somashree Das Dr. Subhojit Shaw Dr. Kundan Deval Dr. Vandana Choudhary

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
17:00 – 17:30	<b>Plenary Discussion &amp; Day Wrap-up</b>	Reflection on learnings, Q&A on project work	Course Coordinator, Rapporteur
<b>Day 10: Thursday, 28 August 2025</b>			
09:30 – 10:00	<b>Daily Precap &amp; Objectives Review</b>	Quick recap of project work, overview of presentation day	Course Coordinator
<b>Module 9: Capstone Project &amp; Synthesis (Contd.)</b>			
10:00 – 13:00	<p><b>Session 40: Sustainable Recovery &amp; Development: Pathways for Disaster-Resilient Futures &amp; Case Studies</b></p> <p><b>Session Overview:</b> This session explores how sustainable development can be integrated into reconstruction efforts. It analyzes best practices and policy integration from case studies to build long-term disaster resilience and empower communities.</p> <p><b>Reading Links:</b></p> <ul style="list-style-type: none"> <li>❖ <a href="https://www.unisdr.org/files/53213_bbb.pdf">https://www.unisdr.org/files/53213_bbb.pdf</a></li> <li>❖ <a href="https://g20drrwg.preventionweb.net/media/88883/download?startDownload=20250728">https://g20drrwg.preventionweb.net/media/88883/download?startDownload=20250728</a></li> <li>❖ <a href="https://www.sciencedirect.com/science/article/pii/S2590061719300031">https://www.sciencedirect.com/science/article/pii/S2590061719300031</a></li> <li>❖ <a href="https://nepjol.info/index.php/jomra/article/view/73082/55864">https://nepjol.info/index.php/jomra/article/view/73082/55864</a></li> <li>❖ <a href="https://www.gfdrr.org/sites/default/files/Disaster%20Recovery%20Guidance%20Series-%20Building%20Back%20Better%20in%20Post-Disaster%20Recovery.pdf">https://www.gfdrr.org/sites/default/files/Disaster%20Recovery%20Guidance%20Series-%20Building%20Back%20Better%20in%20Post-Disaster%20Recovery.pdf</a></li> <li>❖ <a href="https://climateadaptationplatform.com/climate-resilience-and-disaster-recovery-in-kerala-bbb-framework/">https://climateadaptationplatform.com/climate-resilience-and-disaster-recovery-in-kerala-bbb-framework/</a></li> </ul>	Interactive Lecture, Case Study Discussion	Sh. Pradeep K. Jena, IAS Sh. Shiv Narayan Sidhh, NIDM Ms. Atisha Sood, NIDM
13:00 – 14:00	<b>Lunch Break</b>		
14:00 – 17:00	<b>Session 41: Capstone Project Presentations &amp; Peer Feedback</b>	Group Presentations, Q&A, Peer Review	<b>NIDM Team</b> Sh. Shiv Narayan Sidh Sh. Shekher Chaturvedi Dr. Sushma Guleria

Time	Session Title	Andragogy	Speaker(s) / Facilitator(s)
			Dr. Pankaj Kumar Ms. Atisha Sood Dr. Somashree Das Dr. Subhojit Shaw Dr. Kundan Deval
17:00 – 17:30	Plenary Discussion & Day Wrap-up	Reflection on learnings, Q&A	Course Coordinators
Day 11: Friday, 29 August 2025			
09:30 – 10:00	Daily Precap & Objectives Review	Overview of the final day, course conclusion	Course Coordinators
10:00 – 11:15	<b>Session 42: Course Synthesis: Key Takeaways &amp; Future Directions</b>	Facilitated Discussion, Interactive Summary, Group Reflection	<b>NIDM Team</b>
11:15 – 11:45	Tea Break		
11:45 – 12:15	<b>Session 43: Post-Training Evaluation &amp; Feedback Session</b>	Feedback Forms, Open Discussion	<b>NIDM Team</b>
Module 10: Valedictory			
12:15 – 13:00	<b>Session 44: Valedictory Ceremony &amp; Certificate Distribution</b>	Keynote Addresses, Certificate Handover, Group Photo, Networking	Executive Director, NIDM Dignitaries
13:00 onwards	Lunch		

\*To be Confirmed

### 15. List of Film Fiesta- Disaster Management Movies and Documentaries

This curated list features films and documentaries that compellingly portray various aspects of disaster management, from prevention and preparedness to response, recovery, and the human element in crises. They offer valuable insights into the challenges, heroism, and societal impacts of both natural and man-made disasters.

#### Don't Look Up

- Type: Movie (satirical disaster drama)
- Synopsis: Two astronomers discover a planet-killing comet and struggle to alert the world. Their warnings are met with media apathy and political denial, satirizing how society might ignore scientists even in the face of imminent catastrophe.
- Key themes/disaster: Global catastrophe (comet impact), crisis communication failures, infodemic and politicization of disaster response, scientific denialism, public apathy towards existential threats.
- Language: English
- Available on: Netflix (primarily), also available for rent/buy on Apple TV, Google Play Movies, YouTube.
- Year of release: 2021

#### Contagion

- Type: Movie (medical thriller)
- Synopsis: A lethal airborne virus originating in Asia spreads rapidly worldwide, causing a global pandemic. Scientists and public health officials race to trace the infection and develop a vaccine as social order begins to fray. Notably, the film's events closely mirrored aspects of the COVID-19 crisis, underscoring the critical importance of pandemic preparedness and rapid response.
- Key themes/disaster: Pandemic (fictional virus), public health response, vaccine development, societal panic, rapid spread of misinformation, the interconnectedness of global health.
- Language: English
- Available on: Amazon Prime Video (Rent/Buy), Apple TV (Rent/Buy), JioCinema (sometimes free with ads).
- Year of release: 2011

#### The Impossible

- Type: Movie (survival drama, based on true events)
- Synopsis: Recounts the harrowing experience of a Spanish family (based on the real-life experience of a Portuguese family) on holiday in Thailand who are caught in the 2004 Indian Ocean tsunami. Separated by the massive waves, they endure harrowing challenges in an effort to survive and reunite. The film is unflinching in its depiction of the tsunami's devastation while ultimately highlighting the family's resilience.
- Key themes/disaster: Natural disaster (tsunami), family survival, human resilience in the face of tragedy, immediate emergency response, the chaos and scale of a mega-disaster. (Based on the real 2004 tsunami, one of the deadliest natural disasters in history.)
- Language: English (with some Spanish)
- Available on: Amazon Prime Video (Rent/Buy), Apple TV (Rent/Buy).
- Year of release: 2012

#### Airlift

- Type: Movie (historical drama, based on true events)
- Synopsis: Recounts one of the most complex civilian rescue operations in history – the evacuation of over 170,000 Indians stranded in Kuwait during the 1990 Gulf War. A businessperson (Akshay Kumar) becomes an unlikely hero coordinating the mass evacuation amid war-torn chaos. The film showcases heroism, patriotism, and community resilience as Indians unite to survive a crisis.

- Key themes/disaster: Man-made disaster (wartime humanitarian crisis), mass evacuation operation, patriotism, leadership, and international coordination in disaster management, the role of community in crisis.
- Language: Hindi (with some English)
- Available on: Disney+ Hotstar, Amazon Prime Video.
- Year of release: 2016

### **Only the Brave**

- Type: Movie (biographical disaster drama)
- Synopsis: Tells the true story of the Granite Mountain Hotshots, an elite unit of wildfire firefighters in Arizona. While most people flee from flames, this team heads into danger to protect their community. A fateful 2013 wildfire ("Yarnell Hill Fire") tests their bonds and bravery. The film portrays their courage and sacrifice in the line of duty.
- Key themes/disaster: Wildfire disaster, heroism of first responders, teamwork, sacrifice, the challenges and dangers of firefighting, importance of preparedness in wildfire-prone regions.
- Language: English
- Available on: Amazon Prime Video (Rent/Buy), Apple TV (Rent/Buy), Google Play Movies (Rent/Buy), YouTube (Rent/Buy).
- Year of release: 2017

### **Aftershock: Everest and the Nepal Earthquake**

- Type: Documentary series (3-part)
- Synopsis: An emotional docu-series featuring survivors' firsthand accounts and real footage of the devastating April 2015 Nepal earthquake (magnitude 7.8). The series follows events both on Mt. Everest (where avalanches struck climbers) and across Nepal, showing rescue efforts in Kathmandu and remote villages. It provides an immersive, ground-level view of the disaster's impact and the resilience of those affected.
- Key themes/disaster: Natural disaster (earthquake), emergency response, survival stories, community resilience, challenges of disaster relief in mountainous terrain, human capacity to recover and rebuild.
- Language: English (with Nepali and other local voices)
- Available on: Netflix
- Year of release: 2022

### **Mega Cyclone Fani: Rescuing a Million**

- Type: Documentary (National Geographic special)
- Synopsis: A gripping chronicle of how authorities in Odisha, India, successfully evacuated over one million people to safety in anticipation of Cyclone Fani's landfall in May 2019. Featuring interviews with the state's Chief Minister and disaster management teams, it recounts the 48 hours of meticulous planning and mass mobilization that saved countless lives. This documentary showcases a real-world disaster preparedness success story.
- Key themes/disaster: Natural disaster (cyclone), early warning and mass evacuation, government planning, community cooperation, risk communication. Emphasizes how lessons learned from past cyclones led to improved preparedness – a "global benchmark" for disaster management and resilience.
- Language: English (and regional Indian languages in some interviews)
- Available on: Disney+ Hotstar (India), National Geographic YouTube channel (full documentary often available).
- Year of release: 2019

### **The Volcano: Rescue from Whakaari**

- Type: Documentary (feature film)
- Synopsis: A tense, minute-by-minute account of the 2019 Whakaari/White Island volcanic eruption in

New Zealand, which engulfed 47 tourists and guides in a surge of boiling ash and gas. The film blends harrowing survivor testimonies with footage to convey the eruption's lethal force. It also celebrates the everyday people (tour guides, helicopter pilots, etc.) who courageously undertook rescue efforts amid the eruption.

- Key themes/disaster: Geological disaster (volcano eruption), immediate emergency response, human bravery and compassion, risk assessment in tourism, the unpredictability of natural hazards. Offers a sobering look at nature's fury alongside inspiring examples of human solidarity and heroism in crisis.
- Language: English
- Available on: Netflix
- Year of release: 2022

### **Before the Flood**

- Type: Documentary (feature film)
- Synopsis: Produced and narrated by Leonardo DiCaprio in partnership with National Geographic, this documentary explores the imminent dangers of climate change and investigates possible solutions. It travels the globe – from melting ice caps to deforested lands – and features interviews with climate scientists, activists, and world leaders. DiCaprio guides viewers through the evidence of climate disruption and the urgent need for action, making the complex science accessible.
- Key themes/disaster: Climate change and its multifaceted impacts (rising sea levels, extreme weather, etc.), environmental policy, public awareness, sustainable solutions, global cooperation for disaster prevention. The film aims to inform and galvanize global climate action.
- Language: English
- Available on: Disney+ Hotstar (India), also available for free on YouTube (National Geographic's official channel).
- Year of release: 2016

### **Pandemic: How to Prevent an Outbreak**

- Type: Documentary series (6-part)
- Synopsis: A prescient docu-series (released just before COVID-19) examining global pandemic threats and preparedness. Each episode spotlights different aspects of fighting infectious disease – from heroic doctors battling daily flu outbreaks, to scientists working on a universal vaccine, to efforts against virus outbreaks like Ebola. The series provides an inside look at how health experts and organizations worldwide plan for and respond to emerging pandemics.
- Key themes/disaster: Public health disasters (global pandemics), preparedness and prevention, vaccine research and development, challenges posed by anti-vaccine movements, frontline workers in public health crises.
- Language: English
- Available on: Netflix
- Year of release: 2020

### **Society of the Snow**

- Type: Movie (survival drama, based on true events)
- Synopsis: Based on the 1972 Andes flight disaster, this film chronicles the harrowing true story of the survivors of Uruguayan Air Force Flight 571, whose plane crashed in the remote Andes mountains. Stranded for 72 days in extreme conditions, they resorted to desperate measures to survive, including cannibalism, showcasing incredible human endurance and the bonds forged in the face of unimaginable disaster.
- Key themes/disaster: Survival in extreme conditions, human endurance, ethical dilemmas in disaster, search and rescue challenges, psychological impact of prolonged isolation and trauma. It's a profound study of human resilience and the will to live.
- Language: Spanish (with English dub and subtitles available)
- Available on: Netflix

- Year of release: 2023

### **Leave the World Behind**

- Type: Movie (apocalyptic thriller)
- Synopsis: Two families on vacation find their lives upended by a cyberattack that takes down all their devices and ushers in a series of mysterious events. As the world descends into chaos, they must navigate a collapsing society, face an unknown threat, and find ways to survive together in isolation. The film explores themes of societal breakdown, trust, and the fragility of modern infrastructure.
- Key themes/disaster: Cyber warfare/infrastructure collapse, societal breakdown, psychological impact of widespread technological failure, breakdown of communication, family survival in an unknown apocalyptic scenario.
- Language: English
- Available on: Netflix
- Year of release: 2023

### **Fire of Love**

- Type: Documentary (feature film)
- Synopsis: This visually stunning documentary tells the captivating story of Katia and Maurice Krafft, French volcanologists who dedicated their lives to studying volcanoes, often getting dangerously close to active eruptions. Through their breathtaking archival footage and personal diaries, the film explores their passionate love for each other and for volcanoes, culminating in their tragic deaths during a volcanic eruption.
- Key themes/disaster: Volcanic hazards, scientific research in high-risk environments, risk assessment, passion for understanding natural phenomena, the dangers faced by researchers and first responders.
- Language: English (with French parts)
- Available on: Disney+ Hotstar, Amazon Prime Video (Rent/Buy).
- Year of release: 2022

### **Other Suggestions (*for informal viewing or deeper dives into specific themes*)**

These films also touch upon disaster themes and can be valuable for discussion:

- Mother India (1957): Indian drama depicting rural resilience against natural hardships.
- San Andreas (2015): American disaster film about a massive earthquake in California.
- Aftershock (2022) (Chinese film): Drama about the aftermath of the 1976 Tangshan earthquake.
- The Tunnel (Norwegian: Tunnellen - 2019): Norwegian disaster thriller about a truck crash in a tunnel leading to a fire and trapped victims.
- Tidal Wave (Haeundae - 2009): South Korean disaster film focusing on a megatsunami hitting a popular resort.
- 2012 (2009): American disaster film depicting a series of global geological catastrophes.
- Tum Mile (2009): Hindi romantic drama set against the backdrop of the 2005 Mumbai floods.
- Pompeii (2014): Historical disaster film about the eruption of Mount Vesuvius.
- The Wave (2015): Norwegian disaster film about a rockslide causing a tsunami.
- Twister (1996): American disaster film following storm chasers during a severe tornado outbreak.
- The Burning Train (1980): Indian action thriller about a fire on a superfast express train.
- Geostorm (2017): American sci-fi disaster film where a network of satellites designed to control weather malfunctions and creates global superstorms.

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