



**Syllabus on
Disaster Risk Reduction (DRR) and Disaster Management (DM)**

Cluster 1: Introduction and Basic Principles of Disaster Risk Reduction (DRR)

Definition and key concepts in DRR: Hazards, Vulnerabilities, and Risks. Types of hazards (natural and man-made). Disaster Risk Reduction Principles: Prevention, mitigation, preparedness, response, recovery. Core principles of DRR. Overview of the Community-Based Disaster Risk Reduction (CBDRR).

Cluster 2: Technologies in DRR

Applications of Geographic Information Systems (GIS) and Remote Sensing in DRR. Types of Early Warning Systems, Information and Communication Technologies (ICT) in DRR, Use of Artificial Intelligence (AI) and Machine Learning in Predictive analytics, risk modeling and managing disaster responses. Role of drones in post-disaster assessment and response.

Cluster 3: Social and Political Aspects of DRR

Identifying vulnerable populations. Addressing social inequities in DRR efforts. Gender-responsive approaches in DRR. Addressing gender-specific vulnerabilities. Role of governance and policy in DRR. Political influences on DRR policies and funding. Legal frameworks governing DRR. Importance of public involvement. Participatory disaster planning and community mobilization.

Cluster 4: Health and Related Issues in DRR

Common health risks and impacts during and post-disaster. Role of healthcare in disaster response. Preparedness planning for health facilities. Psychological impacts of disasters. Approaches to provide mental health support. Managing disease outbreaks and epidemics during disasters. Health monitoring and control measures.

Cluster 5: Local and Global Impact

Economic Impacts of Disasters: Financial repercussions of disasters. Intersection of climate change and disaster risks. Mitigation strategies addressing climate impacts. Integrating DRR into sustainable development goals (SDGs). Role of international organizations in DRR.

Cluster 6: Disaster Management and DRR Structure, including DDMP, SDMP, and Managerial Aspects

Overview of national-level DM structures, District Disaster Management Plan (DDMP), State Disaster Management Plan (SDMP). Coordination between state and district-level plans. Budgeting for DRR initiatives. Funding and resource allocation in DRR.

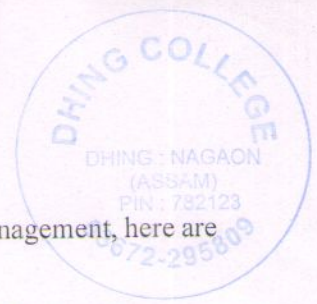
Cluster 7: Communication and Media in DRR

Effective strategies for communicating risk. Role of awareness in DRR preparedness. Media's role in disaster preparedness and response. Influence of social media for real-time updates. Benefits and challenges of social media in DRR. Responsibilities of journalists during disasters. Engaging stakeholders in DRR. Key principles of crisis communication.

Cluster 8: Future Careers in DM and DRR

Overview of career opportunities in DRR: Required skills and qualifications for opportunities within NGOs, Exploring roles within international organizations and skills for global DRR positions, Careers in DRR policy and research. Emerging technologies and innovations in DRR. Shifting focus towards resilience and sustainability.

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For a foundational understanding of disaster risk reduction (DRR) and disaster management, here are some key books and reports:

1. "At Risk: Natural Hazards, People's Vulnerability and Disasters" by Piers Blaikie, Terry Cannon, Ian Davis, and Ben Wisner
2. "Disaster Risk Reduction for the Built Environment" by Lee Bosher
3. "Handbook of Disaster Risk Reduction & Management" by Christian N. Madu and Chu-Hua Kuei
4. "Natural Hazards, Un Natural Disasters: The Economics of Effective Prevention" by World Bank and United Nations
5. The United Nations Office for Disaster Risk Reduction (UNDRR) publishes several key reports, such as the Global Assessment Report on Disaster Risk Reduction (GAR), which provides a global view of disaster risk trends, challenges, and policy recommendations.

Sendai Framework for Disaster Risk Reduction 2015-2030 - A crucial document outlining the global DRR agenda with targets and priorities to reduce disaster losses.

6. "Disaster Management: A Disaster Manager's Handbook" by Asian Development Bank
7. "Managing Disaster Risk in Emerging Economies" edited by Alcira Kreimer and Mohan Munasinghe
8. "Risk Society: Towards a New Modernity" by Ulrich Beck
9. "The Disaster Resilient City: Risk Reduction, Resilience, and Built Environment" by Yoshitsugu Hayashi and Yoshihide Sekimoto
10. "The Disaster Recovery Handbook: A Step-by-Step Plan to Ensure Business Continuity and Protect Vital Operations, Facilities, and Assets" by Michael Wallace and Lawrence Webber

Journal Articles & Online Resources

Journals like the International Journal of Disaster Risk Reduction and Disaster Prevention and Management provide academic articles on the latest research, case studies, and advancements in DRR.

UNDRR's Prevention Web platform is also a valuable online resource for news, reports, and tools related to DRR.

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