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URGENT: Urban Resilience and Adaptation for India and Mongolia



Report on:
Lecture Material
Community Based Disaster Management



Partner number: P11
Jawaharlal Nehru University, New Delhi
India



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Urban Resilience and Adaptation for India and Mongolia:
curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions
619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

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Community Based Disaster Management

Semester -II: January – June

Coordinator	Dr Deep Narayan Pandey
Credits	4 Credits
Lecturers	Dr Deep Narayan Pandey
Level	M.A.
Host institution	Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University, New Delhi
Course duration	One Semester [July - December]

Summary

This one full semester elective course provides the Master level students of Disaster Studies the basic understanding the community based disaster management and its importance in present regime of disasters. It will introduce students to concepts, tools, methods of community based disaster management, while giving importance to wide range of communities in different geographic location with varied socio-economical settings. The course will touch upon structures and semi-structured frameworks at international, national and sub-national contexts. The course includes individual assignments.

Target Student Audiences

Semester - II Students of M.A.

Prerequisites

- Nil

Aims and Objectives

This course has been designed with a view to help students in developing a comprehensive understanding and knowledge of the concepts underlying community based disaster risk management in the context of the disaster management cycle and beyond. The course work emphasises on the scope of disaster preparedness strategy and associated aspects, thus generating a locally appropriate and locally owned strategy for disaster preparedness and risk reduction. The main objectives of the course are: (i) to help students in understanding importance of community based disaster management; (ii) to comprehend Indian disaster management framework and community based disaster management; and (iii) to visualise role of community in disaster risk reduction and sustainable development.



Activities	Learning outcomes	Assessment	Estimated workload (hours)	Self-Study (hours)
In-class activities				
Lectures and Presentations	Community Based Disaster Management - Nature and Concept CBDM (Key Terminologies). Components of CBDM and Risk Reduction. Indigenous and Local Knowledge for Disaster Management. Disaster Education in India.	Mid Semester Examination	08	08
Lectures and Presentations	Grass Root Participation and Governance - Role of Municipality & Panchayat for Disaster Management. Educational Institution based Disaster Risk management. NGOs and Disaster related activities. Role of Government - CBDD theory and practices	Mid Semester Examination	08	08
Lectures and Presentations	Characteristic of Safe and Resilient Community - Characteristics of community resilience (before, during and after disaster). The nature of safe and resilient communities. Indicators of a Resilient Community. Community Level Emergency Management.	Mid Semester Examination	08	08
Lectures and Presentations	Community Preparedness, Community Empowerment, Time and Resource	Mid Semester Examination	08	08

	budgeting, Convergence, Gender-sensitive community based disaster management, Inclusion of other disadvantaged groups			
Lectures and Presentations	Building Capacity and Community Resilience - Community Resilience planning and tools. Disaster Literacy of Society. Community Resilience - Rural and Urban Area. Media, Community and Disaster Management.	End Semester Examination	08	08
Lectures and Presentations	Community Participation and Awareness - Community Level Emergency Management. Importance of Community Participation in Disaster Preparedness. Case Study from Coastal India and Coastal Borders. Case Study from Himalayan Region and Terrestrial borders	End Semester Examination	08	08
Independent work				
Individual Assignments	Field Trips and interaction with communities and documenting selected case studies	Individual Presentations	08	08
Total			56	56

Grading

The students' performance will be based on the following:

- Quizzes/Surprise Test – 10%
- Mid Semester Examination – 30%
- End Semester Examination – 50%
- Individual Assignments – 10%

Grade	Grade Point	FGPA	Class/Division
A+	9	8.5 and above	High First Class
A	8	7.5 and above but less than 8.5	Middle First Class
A-	7	6.5 and above but less than 7.5	Lower First Class
B+	6	5.5 and above but less than 6.5	High Second Class
B	5	4.5 and above but less than 5.5	Middle Second Class
B-	4	3.5 and above but less than 4.5	Lower Second Class
C+	3		
C	2		
C-	1		
F	0		

Course Schedule: Semester-II: January - June

Course Assignments

The Structure of Individual Assignments will be as follows:

- Reporting field work and community interactions.
- Review of research articles and working paper with given objectives.

Literature

- Adenrele Awotona (2017) Planning for Community-based Disaster Resilience Worldwide - Learning from Case Studies in Six Continents, Routledge, 490 Pages.
- Ayers J, Huq S (2009) Community based adaptation to climate change: an update. IIED, London
- Chen, LC., Liu, YC. & Chan, KC. Integrated Community-Based Disaster Management Program in Taiwan: A Case Study of Shang-An Village. Nat Hazards 37, 209 (2006). <https://doi.org/10.1007/s11069-005-4669-5>
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- de Silva, A., Haigh, R., Amaratunga, D. (2021). A Systematic Literature Review of Community-Based Knowledge in Disaster Risk Reduction. In: Amaratunga, D., Haigh, R., Dias, N. (eds) Multi-Hazard Early Warning and Disaster Risks. Springer, Cham. https://doi.org/10.1007/978-3-030-73003-1_20
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- Raj Gautam Dhruva and Sudarshan C. Khanal (2009) Community Based Disaster Risk Reduction: Contribution To Hyogo Framework Of Action, Mercy Corps:Lailtpur, Nepal.
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- Sakurai, A., Ito, T. (2022). Community-Based Disaster Risk Reduction Education in Japan. In: Ito, T., Tamura, M., Kotera, A., Ishikawa-Ishiwata, Y. (eds) Interlocal Adaptations to Climate Change in East and Southeast Asia. SpringerBriefs in Climate Studies. Springer, Cham. https://doi.org/10.1007/978-3-030-81207-2_8
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- Shaw R, (2016) Community Based Disaster Risk Reduction, <https://doi.org/10.1093/acrefore/9780199389407.013.47>
- Shaw R, Okazaki K (2003) Sustainability in grass-roots initiatives: focus on community based disaster management. UNCRD Publication, Kobe (99 pp)
- Shaw R, Okazaki K (2004) Sustainable community based disaster management practices in Asia: A user's guide. Kobe: UNCRD
- Van Niekerk, D., Nemakonde, L.D., Kruger, L., Forbes-Genade, K. (2018). Community-Based Disaster Risk Management. In: Rodríguez, H., Donner, W., Trainor, J. (eds) Handbook of Disaster Research. Handbooks of Sociology and Social Research. Springer, Cham. https://doi.org/10.1007/978-3-319-63254-4_20
- Zhang, X., Yi, L. & Zhao, D. Community-based disaster management: a review of progress in China. Nat Hazards 65, 2215–2239 (2013). <https://doi.org/10.1007/s11069-012-0471>

Reflections on & Vision of - Disaster Management



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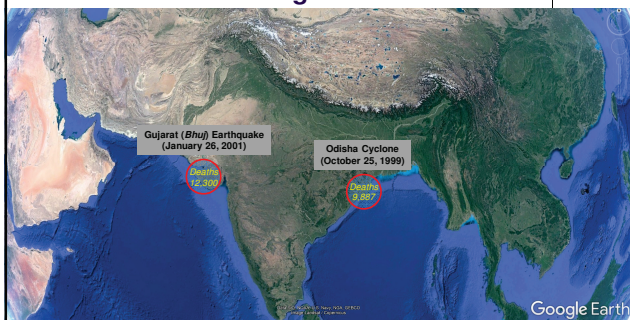
How it started?



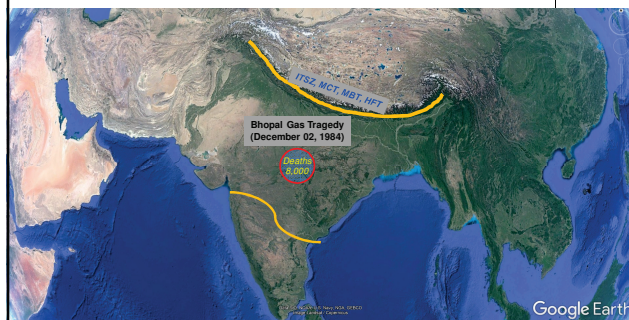
"To promote internationally coordinated efforts to reduce material losses and social and economic disruption caused by natural disasters, especially in developing countries, on December 11, 1987, United Nations General Assembly Resolution declared 1990s as the International Decade for Natural Disaster Reduction (IDNDR)."

National Centre for Disaster Management (1995)
Ministry of Agriculture and Cooperation
Government of India

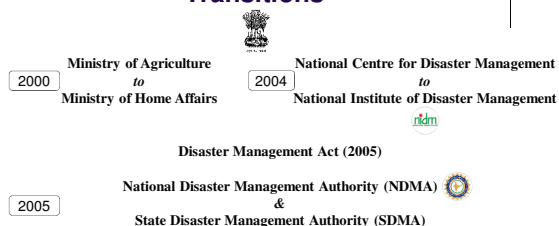
Turning Point



What We Missed!

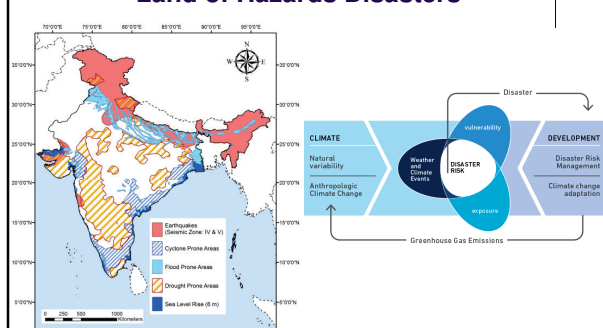


Transitions



"To build a safer and disaster resilient India by a holistic, pro-active, technology driven and sustainable development strategy that involves all stakeholders and fosters a culture of prevention, preparedness and mitigation."

Land of Hazards Disasters



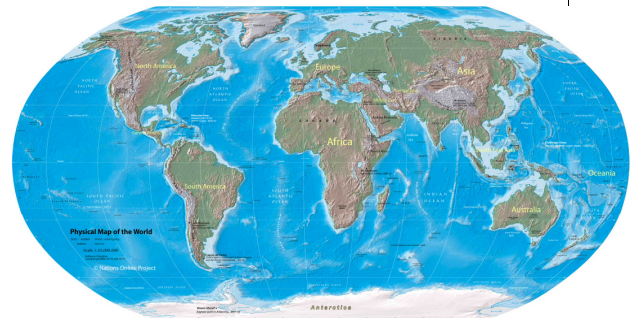
Indian Himalaya

disaster frequent & climate changing world

Dr. Joshi
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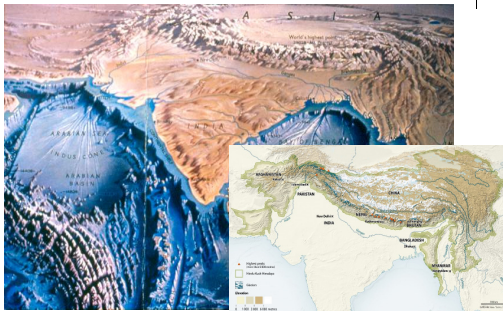


Mountain of the World



Source: Internet

Himalayan Region



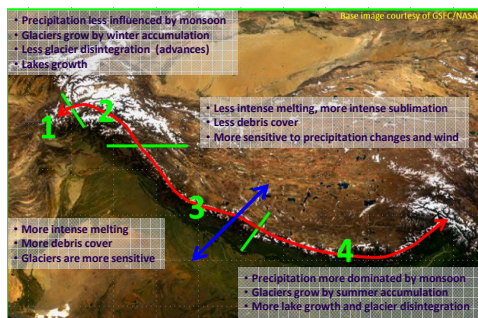
Source: Internet

Himalaya

- Extra-ordinary beauty
- Diverse landscape
- Ecological buffer
- Third pole on the Earth
- Source of freshwater reserve
- Rich in Natural Resources
- Lifeline for almost 1/3rd of humanity
- Remoteness and isolation
- Limited livelihood options
- Prone to natural disasters
- Conflicts over natural resources
- Fragile and Complex
- Sensitive to climate Change
- Persistent Poverty

Source: ICIMOD

Glaciers



Source: Karel et al. (2010)

River Basins



Sindhu and Zasker Rivers Satluj River Bhagirathi and Alaknanda Siang (Bharamputra)



Source: Internet
Courtesy: Dr Susham Gairola

Last Page

The appended material is based on course revised/ developed under the URGENT Project.

The course is being offered at the Jawaharlal Nehru University. The teaching is carried out using the published research material. As the course is multi-disciplinary, finding a text book is challenging. The appended notes are using the material available as Open Access, which is distributed under the terms and conditions of the Creative Commons Attribution license.



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