

M.A./M.Sc. (Two Years Degree Program)	
Third Semester	
Subject-Geography	
Code of the Course	GEG9110T
Title of the Course	NATURAL HAZARD AND DISASTER MANAGEMENT
Qualification Level of the Course	NHEQF Level 6.5
Credit of the course	4
Type of the course	Discipline Specific Elective Course in Geography
Delivery type of the Course	Lecture (40+20). The 60 hours for content delivery and 20 hours of diagnostic assessment, formative assessment, and subject/class activity, problem solving.
Prerequisites	This course on the Natural Hazard and Disaster Management assumes' that the students are familiar with the basic knowledge of natural hazards and disasters. (Graduation level awareness).
Co-requisites	Basic knowledge of Geography
Objectives of the course	<ul style="list-style-type: none"> • The course begins with a discussion on alternative concepts of disasters, calamity, risk and hazard. • The course then proceeds to aggregate the models used to benchmark disasters. • In the final it de-myths that disasters are natural and lays bare the role of vulnerability in creating disasters and what needs to be managed.
Learning outcomes	<ul style="list-style-type: none"> • The student gains a perspective of disasters different than the Nature as Cause of Disaster. • The student keen to pursue a profession in Disasters can do so by addressing real life issues of vulnerability of people. • Students could become champions to spread the 'real' reason for disasters and thus become the torchbearers of change needed to mitigate disasters especially in India.
Syllabus	
UNIT - I	Disasters: Definition and Concepts; Concept of Hazards, Risk, Vulnerability and Disaster.

	<p>आपदाएँ: परिभाषा और अवधारणाएँ; खतरों, जो खम, संवेदनशीलता और आपदा की अवधारणा।</p>
UNIT - II	<p>Types of Hazards: Natural (Flood, Earthquake and Tsunami), man-made: Causes, Impact, Distribution and Mapping.</p> <p>खतरों के प्रकार: प्राकृतिक (बाढ़, भूकंप और सुनामी), मानव निर्मित: कारण, प्रभाव, वितरण और मान चित्रण।</p>
UNIT - III	<p>Regional Dimension of hazard: Occurrence and trends, methods of identifying hazard prone regions (World and India examples).</p> <p>खतरे का क्षेत्रीय आयाम: घटनाएँ और रुझान, खतरे की आशंका वाले क्षेत्रों की पहचान करने के तरीके (वश्व और भारत के उदाहरण)।</p>
UNIT - IV	<p>Disaster Losses and Impact – Displacements, livelihood, economy and infrastructure, health.</p> <p>आपदा हानि और प्रभाव - वस्थापन, आजी वका, अर्थव्यवस्था और बुनियादी ढाँचा, स्वास्थ्य।</p>
UNIT - V	<p>Response to Disasters: International, national, government, non-government, community and individual, media and education. Mitigation and Management: Plans and policies; engineering, economic, social, political and policy initiatives.</p> <p>आपदाओं पर प्रति क्रिया: अंतर्राष्ट्रीय, राष्ट्रीय, सरकारी, गैर-सरकारी, समुदाय और व्यक्तिगत, मीडिया और शिक्षा। शमन और प्रबंधन: योजनाएं और नीतियां; इंजीनियरिंग, आर्थिक, सामाजिक, राजनीतिक और नीतिगत पहल।</p>
	Suggested Readings
Text Books	<ul style="list-style-type: none"> • Disaster Management: Dr. H.S. Garg, SBPD Publications • Disaster Management: Savindra singh, Pravalika Publication, Allahabad • Disaster Management: S.C. Sharma, Khanna Publishing House • Kapur, Anu. et al. 2005. Disasters in India: Studies of Grim Reality, Rawat Publications, Jaipur and Delhi • Kapur, Anu, 2008. On Disasters in India, Cambridge University Press. • आपदा प्रबंधन: शवगोपाल मश्र, प्रभात प्रकाशन प्रा. ल मटेड • पर्यावरण शिक्षा एवं आपदा प्रबंधन: डॉ. आशुतोष बाजपेयी, ठाकुर पब्लिकेशन प्राइवेट ल मटेड
Reference Books	<ul style="list-style-type: none"> • Bankoff, G., G. Frerks and D. Hilhorst (eds.) 2003. Mapping Vulnerability: Disasters, Development and People, Earthscan. • Government of India, 2005. Disaster Management Act, 2005, The Gazette of India, New Delhi. • Allan, S., Adam, B. and Carter, C., (eds.), (2000) : Environmental Risks and the Media, Routledge, London. • Ambala-Bertrand, J.M., (1993): Political Economy of Large Natural Disasters: With Special Reference to Developing Countries, Clarendon Press, Oxford.

	<ul style="list-style-type: none"> • Blaikie,P., Cannon,T., Davis,I.,(et.al.), (1994) : At Risk: Natural Hazards, People's Vulnerability, and Disasters, Routledge, London. • Parasuraman, S. 2004. India Disasters Report: Towards a Policy Initiatives, Oxford University Press. • National Centre for Disaster Management, 2001. Report of the High Powered Committee (HPC) on Disaster management, New Delhi, http://nidm.gov.in/PDF/pubs/HPC_Report.pdf. • United Nations, 2004. Living With Risk: A Global Review of Disaster Reduction Initiatives. • Wisner, B., P. Blaikie, T. Cannon and I. Davis, 2004. At Risk: Natural Hazards, Peoples' Vulnerability and Disasters, Routledge (Second Edition). • World Disasters Report, http://www.ifrc.org/en/publications-and-reports/world-disasters report/
<p>Suggested E-resources</p>	<ul style="list-style-type: none"> • http://www.govtpolytechnicbargarh.in/iticollege/college/iti/SM/6th-civ-DISASTER%20MANAGEMENT.pdf • https://nios.ac.in/media/documents/316-New/Book-1/Ch-13.pdf