



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Syllabus of the Minor Subject Disaster Management For First and Second year of B.A./B.Sc./B.Com

Syllabus Developed by				
SN	Name of Expert/BoS Member	Designation	Department	College/ University

Programme/Class: Certificate		Year: Second	Semester: III and IV
Subject: Minor (Elective)			
Course Code: M010304T		Course Title: Disaster Management	
Credits: 05		Minor / Elective	
Max. Marks: 25+75		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0			
Unit	Topics	No. of Lectures	
I	Understanding Disaster Understanding the Concepts and definitions of Disaster, Hazard, Vulnerability, Risk, Capacity – Disaster and Development, and disaster management.	15	
II	Types, Trends, Causes, Consequences and Control of Disasters Geological Disasters (earthquakes, landslides, tsunami, mining); Hydro-Meteorological Disasters (floods, cyclones, lightning, thunder-storms, hail storms, avalanches, droughts, cold and heat waves) Biological Disasters (epidemics, pest attacks, forest fire); Technological Disasters (chemical, industrial, radiological, nuclear) and Manmade Disasters (building collapse, rural and urban fire, road and rail accidents, nuclear, radiological, chemicals and biological disasters) Global Disaster Trends – Emerging Risks of Disasters – Climate Change and Urban Disasters.	15	
III	Disaster Management Cycle and Framework Disaster Management Cycle – Paradigm Shift in Disaster Management. Pre-Disaster – Risk Assessment and Analysis, Risk Mapping, zonation and Microzonation, Prevention and Mitigation of Disasters, Early Warning System; Preparedness, Capacity Development; Awareness. During Disaster – Evacuation – Disaster Communication – Search and Rescue – Emergency Operation Centre – Incident Command System – Relief and Rehabilitation – Post-disaster – Damage and Needs Assessment, Restoration of Critical	15	

	Infrastructure – Early Recovery – Reconstruction and Redevelopment; IDNDR, Yokohama Strategy, Hyogo Framework of Action.	
IV	Disaster Management in India Disaster Profile of India – Mega Disasters of India and Lessons Learnt. Disaster Management Act 2005 – Institutional and Financial Mechanism, National Policy on Disaster Management, National Guidelines and Plans on Disaster Management; Role of Government (local, state and national), Non- Government and Inter Governmental Agencies	15
V	Applications of Science and Technology for Disaster Management Geo-informatics in Disaster Management (RS, GIS, GPS and RS). Disaster Communication System (Early Warning and Its Dissemination). Land Use Planning and Development Regulations, Disaster Safe Designs and Constructions, Structural and Non Structural Mitigation of Disasters S&T Institutions for Disaster Management in India	15
<p>SUGGESTED BOOKS:</p> <ol style="list-style-type: none"> 1. Publications of National Disaster Management Authority (NDMA) on Various Templates and Guidelines for Disaster Management 2. Bhandani, R. K., An overview on natural & man-made disasters and their reduction, CSIR, New Delhi 3. Srivastava, H. N., and Gupta G. D., Management of Natural Disasters in developing countries, Daya Publishers, Delhi 4. Alexander, David, Natural Disasters, Kluwer Academic London 5. Ghosh, G. K., Disaster Management, A P H Publishing Corporation 6. Murthy, D. B. N., Disaster Management: Text & Case Studies, Deep & Deep Pvt. Ltd. 		


