

AC – 20/04/2024  
Item No. – 8.30 (N) Sem I (1b)

## As Per NEP 2020

# University of Mumbai



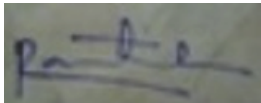
<b>Syllabus for Basket of OE</b>	
<b>Board of Studies in GEOGRAPHY</b>	
<b>UG First Year Programme</b>	
<b>Semester - I</b>	
<b>Title of Paper -</b>	<b>Credits</b>
<b>I) Disaster Management and Mitigation</b>	<b>2</b>
<b>From the Academic Year</b>	<b>2024/2025</b>

Sr. No.	Heading	Particulars
1	<p><b>Description of the course :</b></p> <p><b>Including but not limited to :</b></p>	<p><b>Disaster Management and Mitigation</b></p> <p>The curriculum on "Disaster Management and Mitigation" is designed specifically for First Year Students. It aims to equip students with the essential knowledge and skills needed to understand, manage, and mitigate the impacts of disasters effectively.</p> <p>In an era characterized by increasing frequency and severity of natural and man-made disasters, understanding disaster management principles is not only relevant but also imperative. This curriculum empowers students to comprehend the diverse array of disasters, their underlying causes, and the profound impacts they exert on human societies and the environment. Moreover, it instils a proactive approach towards disaster preparedness, response, and recovery, fostering resilience in communities.</p> <p>The knowledge garnered from this curriculum finds wide-ranging applications across various sectors, including emergency management, humanitarian aid, urban planning, and public policy formulation. Students will develop critical thinking and decision-making skills essential for coordinating disaster response efforts, assessing vulnerability and risk, and implementing effective mitigation measures.</p> <p>Professionals well-versed in disaster management principles are in high demand across diverse sectors, including government agencies, non-governmental organizations, and international bodies. Graduates of this program can pursue rewarding careers as emergency managers, disaster recovery specialists, risk analysts, and policy advisors, among other roles. With the increasing emphasis on resilience-building and sustainable development, the demand for skilled professionals in disaster management is expected to continue to grow.</p>
2	<b>Vertical :</b>	Open Elective
3	<b>Type :</b>	Theory
4	<b>Credit:</b>	2 credits ( 1 credit = 15 Hours for Theory)

5	<b>Hours Allotted :</b>	30 Hours
6	<b>Marks Allotted:</b>	100 Marks
7	<p><b>Course Objectives:</b> ( List some of the course objectives )</p> <ol style="list-style-type: none"> <li>1. To understand the concept, types, causes and effects of disaster and vulnerability.</li> <li>2. To understand the concept of disaster management and its implementation.</li> <li>3. To evaluate the role of different agencies in disaster management.</li> <li>4. To develop abilities to implement disaster management and rehabilitation strategies.</li> </ol>	
8	<p><b>Course Outcomes:</b> ( List some of the course outcomes )</p> <p>On successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Increase the knowledge and understanding of the disaster phenomenon.</li> <li>2. Analyse the types, nature, causes and effects of disasters.</li> <li>3. Critically evaluate the disaster management strategies.</li> <li>4. Inculcate the skills and abilities of implementing disaster risk reduction strategies.</li> </ol>	
9	<p><b>Modules:-</b> Per credit One module can be created</p>	
	<p><b>Module 1: Concept of Disasters – Types, Causes and Impact (8 Hours)</b></p>	
	<ol style="list-style-type: none"> <li>1. Earthquake, Volcano and Tsunami</li> <li>2. Drought, Flood and Cyclone</li> <li>3. Forest Fire, Industrial and Transport Accidents</li> <li>4. Terrorism, Epidemics and Climate Change</li> </ol>	
	<p><b>Module 2: Concept of Disaster Management (7 Hours)</b></p>	
	<ol style="list-style-type: none"> <li>1. Concept of disaster management, nature and scope</li> <li>2. Concept of Disaster Management Cycle</li> <li>3. Risk, Damage and Vulnerability Assessment and Risk reduction strategies</li> <li>4. Role of government and international agencies in D.M.</li> </ol>	
	<p><b>Module 3: Disaster Management Strategies (8 Hours)</b></p>	
	<ol style="list-style-type: none"> <li>1. Pre-disaster: Prevention, Mitigation and Preparedness</li> <li>2. Relief: Search, Rescue, Evacuation and Logistic Management</li> <li>3. Response: Psychological, Medical, Shelter, Food and Security</li> <li>4. Post-Disaster: Recovery, Rehabilitation and Reconstruction</li> </ol>	
	<p><b>Module 4: Disaster Management and ICT (7 Hours)</b></p>	
	<ol style="list-style-type: none"> <li>1. DM and role of education – formal and special</li> <li>2. DM and role of Mass Media and NGOs</li> <li>3. Use and Applications of GIS and Remote Sensing in DM</li> <li>4. Use and Applications of Bhuvan / IT / Websites in DM</li> </ol>	

10	<p><b>Text Books:</b></p> <ol style="list-style-type: none"> <li>1. Singh, Savindra (2023): Disaster Management, Pravalika, Allahabad</li> <li>2. Dasgupta R. (2007): Disaster Management and Rehabilitation, Mittal Publications. New Delhi</li> <li>3. Govt. Of India: Disaster Management in India, Ministry of Home Affairs, New Delhi</li> <li>4. गोडबोले, मराठे: आपत्ती व्यवस्थापन संकल्पना, डायमंड पब्लिकेशन्स, पुणे.</li> <li>5. पठारे संभाजी, अजय चाकाने: आपत्ती ब्रराकरण, डायमंड पब्लिकेशन्स, पुणे.</li> <li>6. मोरे जोतीराम, अजुन मुसमाडे: आपत्ती व्यवस्थापनाचा भूगोल, डायमंड पब्लिकेशन्स, पुणे.</li> </ol>	
11	<p><b>Reference Books:</b></p> <ol style="list-style-type: none"> <li>1. Coppola, D.P. (2011): Introduction to International Disaster Management. Elsevier, Butterworth- Heinemann</li> <li>2. Jagbir Singh: Disaster Management: Future Challenges and Opportunities - K W Publishers Pvt. Ltd.</li> <li>3. Murthy, D.B.N. (2008): Disaster Management, Deep &amp; Deep Publications Pvt. Ltd., New Delhi</li> <li>4. Tushar Bhattacharya: Disaster Science and Management - McGraw Hill Education (India) Pvt. Ltd.</li> <li>5. Web sites and Web Resources: NIDM Publications at <a href="http://nidm.gov.in">http://nidm.gov.in</a>- Official Website of National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India <a href="http://cwc.gov.in">http://cwc.gov.in</a>, <a href="http://ekdrm.net">http://ekdrm.net</a>, <a href="http://www.emdat.be">http://www.emdat.be</a>, <a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>,</li> <li>6. <a href="http://pubs.usgs.gov">http://pubs.usgs.gov</a>, <a href="http://nidm.gov.in">http://nidm.gov.in</a> <a href="http://www.imd.gov.in">http://www.imd.gov.in</a>, <a href="https://bhuvan-app1.nrsc.gov.in/bhuvandisaster/">https://bhuvan-app1.nrsc.gov.in/bhuvandisaster/</a></li> <li>7. Post Graduate Diploma in Disaster Management - Programme Guide - IGNOU</li> </ol>	
12	<p><b>Internal Continuous Assessment: 40%</b></p>	<p><b>External, Semester End Examination 60%</b>  <b>Individual Passing in Internal and External Examination</b></p>
13	<p><b>Continuous Evaluation through:</b>  Quizzes, Class Tests, presentations, projects, role play, creative writing, assignments etc.( at least 3)</p> <p><b>Internal Continuous Assessment of 40 Marks</b></p> <ol style="list-style-type: none"> <li>1. One Assignment/Project work/Case study /Presentation /Seminar /Field visit report/Book review etc. to be conducted in the given semester before the Semester end examination. (Marks – 20)</li> <li>2. One online/ offline class test (Marks – 10)</li> <li>3. Active participation in regular class instructional deliveries and fieldwork. &amp; Overall conduct as a responsible learner,</li> </ol>	<p><b>Semester-End Examination of 60 Marks</b></p> <ol style="list-style-type: none"> <li>1. This examination shall be of 2 Hours duration. Maximum marks 60.</li> <li>2. There shall be four questions each of 15 marks. In each Unit, there will be one question.</li> <li>3. All questions shall be compulsory with internal choice within the questions. (Each question will be of 15 marks with options.)</li> </ol>

	mannerism and articulation and exhibit of leadership qualities in organizing environment-related activities (Marks – 10)	
<b>14</b>	<b>Format of Question Paper: for the final examination</b>	
	Q. 1. Based on Module – 1 (15 Marks) Q. 2. Based on Module – 2 (15 Marks) Q. 3. Based on Module – 3 (15 Marks) Q. 4. Based on Module – 4 (15 Marks)	



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