



**Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore**  
**Shri Vaishnav Institute of Technology and Science**  
**Choice Based Credit System (CBCS) in Light of NEP-2020**  
**Civil Engineering Department**  
**Generic Elective (Undergraduate Program)**

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME									CREDITS
			THEORY		PRACTICAL		Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	T	P
GUCE601	GE	<b>Disaster Management and Response</b>	60	20	20	0	0	4	0	0	4	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

\*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

#### Course Educational Objectives (CEOs):

To introduce students to the principles of disaster management, response mechanisms, risk assessment, and the importance of preparedness and recovery in the face of natural and man-made disasters.

#### Course Outcomes (COs):

The student will be able to

1. Understand the basics of disaster management and the disaster management cycle.
2. Be familiar with different types of hazards and the concept of risk and vulnerability.
3. Learn about the roles of individuals, organizations, and governments in disaster response and recovery.
4. Develop skills in disaster management planning and preparation.
5. Recognize the psychological impact of disasters and the need for coping strategies.

#### Syllabus:

#### UNIT I

**Understanding Disaster:** Definition and types of disasters (natural and man-made); Disaster Classification - Levels of disaster (minor, major, and catastrophic) and their impacts on society.

**Risk and Vulnerability:** Concepts of risk and vulnerability, hazard assessment, and damage potential of different types of hazards (earthquakes, floods, hurricanes, etc.).

10 Hrs.

#### UNIT II

**Disaster Management Mechanism:** Phases of disaster management – preparedness, response, recovery, and mitigation.

12 Hrs.

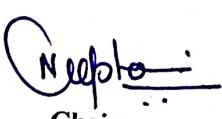
**Risk Management vs. Crisis Management:** Key concepts and approaches for managing risks and crises effectively; Importance of disaster relief planning, logistics, and timely interventions.

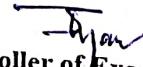
#### UNIT III

**Capacity Building:** Concept of Capacity Building: Strengthening individual, community, and institutional capacity to manage disasters.

12 Hrs.

  
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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*							
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**Structural and Non-Structural Measures:** Physical infrastructure (e.g., dams, warning systems) and policy measures (e.g., training, regulations) to reduce disaster risk.

**Counter-Disaster Resources:** Understanding resources such as first aid kits, rescue equipment, and emergency shelters.

#### UNIT IV

12 Hrs.

**Coping with Disaster:** Coping with Disasters: Personal, family, and community-level coping strategies during and after disasters; Psychological effects on individuals and communities, and the role of counseling and mental health support; Safety norms in industries to minimize risk during disasters; Use of media for disaster communication and raising awareness

#### UNIT V

10 Hrs.

**Planning for disaster management:** Strategies and steps for creating a disaster risk reduction plan; Overview of disaster management laws and policies in India (e.g., National Disaster Management Act, 2005); Preparation of localized disaster management strategies and response frameworks.

#### Textbooks:

1. Manual on Disaster Management, National Disaster Management, Agency Govt of India.
2. Disaster Management by S.C. Sharma, Khanna Publishing House.
3. Disaster Science and Management by T. Bhattacharya, McGraw Hill Education (India) Pvt Ltd Wiley 2015

#### Reference Books:

1. Earth and Atmospheric Disasters Management, N. Pandharinath, CK Rajan, BS Publications 2009.
2. National Disaster Management Plan, Ministry of Home affairs, Government of India (<http://www.ndma.gov.in/images/policyplan/dmplan/draftndmp.pdf>)

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