

# **SIDO KANHU MURMU UNIVERSITY, DUMKA**

(A State University recognized under Section 2(f) & 12(B) of the UGC Act, 1956)



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## **ASSOCIATED VOCATIONAL & ELECTIVE COURSE SYLLABUS**

OF

### **DISASTER MANAGEMENT**

**FOR HUMANITIES AND SOCIAL SCIENCE STREAM  
STUDENTS**

In accordance with the  
Implementation of FYUGP in State Universities of  
Jharkhand Regulations, 2024

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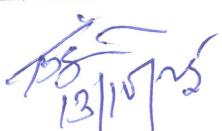
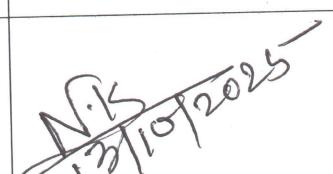
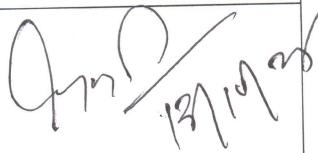
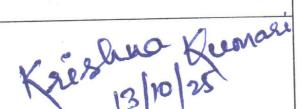
*Implemented from  
Academic Session 2025-2029 Onwards*

## Board of Studies

A meeting of the Syllabus Committee for the revision and finalization of the DISASTER MANAGEMENT (ASSOCIATED VOCATIONAL & ELECTIVE COURSE) syllabus for the Four-Year Undergraduate Programme (FYUGP), in accordance with the Implementation of FYUGP in State Universities of Jharkhand Regulations, 2024, was convened on **13.10.2025**.

The following members of the Syllabus Committee were present in this meeting. The committee unanimously accepted and recommended the syllabi, incorporating major modifications.

Members of the Syllabus Committee:

S. NO.	MEMBERS	SIGNATURE
1.	<b>Dr. T.P. Singh (Chairperson)</b> Dean, Faculty of Social Science & Commerce, SKMU, Dumka	 13/10/25
2.	<b>Dr. Nisha Kumari (External Expert)</b> Professor, University Department of Economics, T.M.B.U. Bhagalpur (Bihar)	 N.K 13/10/25
3.	<b>Sweta Marandi (Member)</b> HOD, University Department of Geography, SKMU, Dumka	 Sweta Marandi 13.10.25
4.	<b>Dr. Ajoy Sinha (Member)</b> Assistant Professor, University Department of Political Science, SKMU, Dumka	 Ajoy Sinha 13/10/25
5.	<b>Kumari Neha (Member)</b> Assistant Professor, University Department of Geography, SKMU, Dumka	Not available.
6.	<b>Krishna Kumari (Member)</b> NBAP, University Department of Geography, SKMU,	 Krishna Kumari 13/10/25

	Dumka	
7.	<b>Dipak Kumar Das (Member)</b> Coordinator NEP, SKMU, Dumka	 13/10/25

Dr. T.P. Singh  
(Chairperson)

Dean  
Faculty of Social Sciences  
S.K.M. Univ. Dumka  
(Jharkhand)

**Group A** is compulsory and will have:

- **Question 1:** Five very short answer questions (1 mark each, total 5 marks)
- **Questions 2 and 3:** Two short answer questions (5 marks each, total 10 marks)

**Group B** will have **six descriptive questions**, each carrying **15 marks**. Students need to answer **any four** (total 60 marks).

Note: Some questions may be divided into smaller parts if needed

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## Question Pattern:

### Question format for 20 Marks:

<b>F.M. = 20</b>	<b>Subject/ Code</b> <b>Time=1Hr.</b>	<b>Exam Year</b>
<b>General Instructions:</b>		
<ul style="list-style-type: none"><li>i. Group A carries very short answer type compulsory questions.</li><li>ii. Answer <b>1 out of 2</b> subjective/ descriptive questions given in <b>Group B</b>.</li><li>iii. Answer in your own words as far as practicable.</li><li>iv. Answer all sub parts of a question at one place.</li><li>v. Numbers in right indicate full marks of the question.</li></ul>		
	<b>Group A</b>	
1.	i. ....	[5x1=5]
	ii. ....	
	iii. ....	
	iv. ....	
	v. ....	
2.	.....	[5]
	<b>Group B</b>	
3.	.....	[10]
4.	.....	[10]

Note: There may be subdivisions in each question asked in Theory Examination.

Jharkhand, NEP Regulations for FYUGP, 2022 onwards

### Question format for 75 Marks:

<b>F.M. = 75</b>	<b>Subject/ Code</b> <b>Time=3Hrs.</b>	<b>Exam Year</b>
<b>General Instructions:</b>		
<ul style="list-style-type: none"><li>i. Group A carries very short answer type <b>compulsory</b> questions.</li><li>ii. Answer <b>4 out of 6</b> subjective/ descriptive questions given in <b>Group B</b>.</li><li>iii. Answer in your own words as far as practicable.</li><li>iv. Answer all sub parts of a question at one place.</li><li>v. Numbers in right indicate full marks of the question.</li></ul>		
	<b>Group A</b>	
1.	i. ....	[5x1=5]
	ii. ....	
	iii. ....	
	iv. ....	
	v. ....	
2.	.....	[5]
3.	.....	[5]
	<b>Group B</b>	
4.	.....	[15]
5.	.....	[15]
6.	.....	[15]
7.	.....	[15]
8.	.....	[15]
9.	.....	[15]

Note: There may be subdivisions in each question asked in Theory Examination.

**SEMESTER – II**

**COURSE:** ASSOCIATED CORE DISASTER MANAGEMENT  
**PAPER:** INTRODUCTION TO DISASTER MANAGEMENT

**TOTAL CREDITS:** THEORY-04  
**TEACHING HOURS:** THEORY-60

<b>EVALUATION</b>		
	<b>External Exam</b>	<b>Internal Exam</b>
<b>Full Marks</b>	<b>75</b>	25 (20 Written + 5 Attendance/Overall Class Performance)
<b>Duration of Exam</b>	3 Hours	1 Hour
<b>Pass Marks</b>		40 Marks

**COURSE OBJECTIVES:**

- To provide students an understanding the need for studying the disaster management
- Develop an understanding about the various types of disasters.

**COURSE OUTCOMES:**

After completing this course, students will be able to:

- Understand the need and significance of studying disaster management
- Understand the different types of disasters and causes for disasters.

**COURSE CONTENTS:****Unit 1: Fundamentals of Disasters**

- Definition, factors, and significance of disasters
- Difference between hazard and disaster
- Natural and man-made disasters: distinctions, nature, types, and magnitude
- Repercussions of disasters and hazards: economic losses, human and animal casualties, ecosystem destruction
- Environmental impacts caused by human activities

**Unit 2: Historical Overview and Types of Natural Hazards**

- History of major disasters
- Types of hazards: earthquakes, volcanism, cyclones, tsunamis, floods, droughts, famines, landslides, and avalanches

### **Unit 3: Technological and Human-Induced Disasters**

- Nuclear reactor meltdowns
- Industrial accidents
- Oil slicks and spills
- Disease outbreaks and epidemics
- War and armed conflict

### **Unit 4: Disaster-Prone Regions and Policy Framework**

- Disaster-prone areas in India
- Seismic zones; flood and drought-prone regions; landslide and avalanche-prone areas
- Cyclonic and coastal hazard-prone regions with special focus on tsunamis
- Post-disaster diseases and epidemics
- National Disaster Policy of India - salient features

### **SUGGESTED READINGS:**

- R. Nishith, Singh AK 2012 Disaster Management in India: Perspectives, issues and strategies New Royal book Company, Lucknow
- Sharma, Kadambari C, Avina 2010 Disaster Management in India Jnanada Prakashan [P&D], New Delhi
- Mishra A 2012 New Dimensions of Disaster Management in India: Perspectives Approaches and Strategies (Set of 2 Vols) Serials publications, New Delhi
- Dagur OS Disaster Management: An Appraisal of Institutional Mechanisms in India Center for Land Welfare Studies,
- Sinha P. C. 2006 Disaster Mitigation: Preparedness, Recovery and Response . SBS Publication & Distributions Pvt. Ltd. New Delhi
- Goel S. L. 2007 Disaster Adminstration And Management Text And Case Studies Deep &Deep Publication Pvt. Ltd., New Delhi
- Dhunna M 2001 Disaster Management Vayu Education Of India, New Delhi

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**SEMESTER – IV****COURSE:** DISASTER MANAGEMENT ELECTIVE COURSE -1**PAPER:** DISASTER RISK ASSESSMENT AND MITIGATION**TOTAL CREDITS: THEORY-04****TEACHING HOURS: THEORY-60**

| <b>EVALUATION</b>       |                      |                                                             |
|-------------------------|----------------------|-------------------------------------------------------------|
|                         | <b>External Exam</b> | <b>Internal Exam</b>                                        |
| <b>Full Marks</b>       | <b>75</b>            | 25<br>(20 Written + 5 Attendance/Overall Class Performance) |
| <b>Duration of Exam</b> | 3 Hours              | 1 Hour                                                      |
| <b>Pass Marks</b>       |                      | 40 Marks                                                    |

**COURSE OBJECTIVES:**

- To expose students to the risk and vulnerability analysis
- To create awareness about disaster prevention and risk reduction

**COURSE OUTCOMES:**

- Study and assess vulnerability of a geographical area.
- Students will be equipped with various methods of risk reduction measures and risk mitigation

**COURSE CONTENTS:****Unit 1: Fundamentals of Disasters**

- Definition, key factors, and significance of disasters
- Distinction between hazards and disasters
- Natural and human-made disasters: differences, nature, classification, and magnitude
- Consequences of disasters and hazards: economic losses, human and animal fatalities, destruction of ecosystems
- Environmental impacts resulting from human activities

## **Unit 2: Historical Perspective and Types of Natural Hazards**

- Historical overview of major disasters
- Classification and characteristics of natural hazards: earthquakes, volcanic eruptions, cyclones, tsunamis, floods, droughts, famines, landslides, and avalanches

## **Unit 3: Technological and Anthropogenic Disasters**

- Nuclear reactor meltdowns
- Industrial accidents
- Oil spills and slicks
- Outbreaks of diseases and epidemics
- Wars and armed conflicts

## **Unit 4: Disaster-Prone Regions and Policy Measures**

- Identification of disaster-prone areas in India
- Seismic zones; flood- and drought-prone regions; landslide- and avalanche-prone regions
- Cyclonic and coastal hazard zones with special reference to tsunami-prone areas
- Post-disaster diseases and epidemics
- Salient features of India's National Disaster Policy

### **SUGGESTED READINGS:**

- Office of the United Nations Disaster Relief Coordinator. 1970. National Disaster And Vulnerability Analysis, Report Of Expect Group Meeting.
- Blaikie, P., T. Cannon, L. Davis, and B. Wisner. 1994. At Risk: Natural Hazards, People's Vulnerability and Disasters. London: Routledge.
- Burton, I.R, W. Kates and G.F. White. 1994. The Environment as Hazard. Harlow: Longman.
- Degg, M.R. 1992. Natural Disaster: Recent Trends and Future Prospects. Geography.
- Government of India. 1997. Vulnerability Atlas of India. New Delhi.

- Haque, C.E. and D. Blair. 1992. Vulnerability to Tropical Cyclones: Evidence From The April 1991 Cyclones In Coastal Bangladesh. *Disasters* 16:2.17-29. 8.

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## SEMESTER –VI

**COURSE:** DISASTER MANAGEMENT ELECTIVE COURSE -2  
**PAPER:** DISASTER MANAGEMENT AND PREPAREDNESS

**TOTAL CREDITS: THEORY-04**  
**TEACHING HOURS: THEORY-60**

| EVALUATION              |               |   |
|-------------------------|---------------|---|
|                         | External Exam | Internal Exam   |
| <b>Full Marks</b>       | <b>75</b>     | 25<br>(20 Written + 5 Attendance/Overall Class Performance) |
| <b>Duration of Exam</b> | 3 Hours       | 1 Hour  |
| <b>Pass Marks</b>       |               | 40 Marks  |

### COURSE OBJECTIVES:

- To understand Rehabilitation, Reconstruction and Recovery in the event of Disaster.
- To familiarise students with various methods of risk reduction measures and risk mitigation.

### COURSE OUTCOMES:

- Understand the role of Information Technology in Disaster Management
- Understand Geographical Information System applications in Disaster Management

### COURSE CONTENTS:

#### Unit 1: Disaster Management Planning

- Pre-disaster management strategies
- Post-disaster management approaches
- Integrated developmental planning for disaster management
- Long-term disaster counter-planning
- Post-disaster operations: search, rescue, evacuation, and logistics management
- Relief operations and support systems

#### Unit 2: Post-Disaster Support and Technology in Management

- Management of essential supplies and temporary shelters
- Site management techniques
- Medical trauma care and stress management
- Post-disaster rehabilitation and reconstruction
- Early warning and prediction systems

- Role of Information Technology (IT), Remote Sensing (RS), Geographic Information Systems (GIS), Global Positioning Systems (GPS), and Incident Command Systems (ICS) in disaster management

#### **Unit 3: Disaster Preparedness and Community Involvement**

- Concept and scope of disaster preparedness
- Preparedness of communities, infrastructure, and public systems
- Community-based disaster management planning
- Roles and responsibilities of government bodies, agencies, and other stakeholders in disaster preparedness

#### **Unit 4: Disaster Prevention and Thematic Preparedness Programs**

- Principles and strategies for disaster prevention
- Disaster preparedness programs for earthquakes and cyclones
- Early warning systems for different hazards
- Preparedness programs for floods and droughts
- Utilization of data from meteorological and other relevant agencies

#### **SUGGESTED READINGS:**

- Nasios, A.S. 1990. Disaster Mitigation and Economic Incentives in Colloquium on the Environment and Natural Disaster Management. Washington, D.C.: The World Bank.
- Nojri, E. 2005 Public Health Issues in Disasters. Crit Care Med. 33: 529-533.
- Organisation of American States. 1984. Integrated Regional Development: Guidelines and Case Studies from OAS Experience. Washington, D.C.: The World Bank.
- Smith, K. 1992. Environmental Hazards: Assessing Risk and Reducing Disaster. London: Routledge.
- Taori, K. 2005. Disaster Management through Panchayati. New Delhi: Concept Publishing Company.
- United Nations Disaster Relief Organization. 1978. Disaster Prevention and Mitigation: A Compendium of Current Knowledge. New York: United Nations.
- United Nations, Office of the Disaster Relief Coordinator. 1988. Disaster Mitigation: A Manual for Planners, Policy Makers, and Communities. Geneva: United Nations Press.

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## SEMESTER – VIII

**COURSE:** DISASTER MANAGEMENT ELECTIVE COURSE -3  
**PAPER:** FIELDWORK / PROJECT REPORT/DISSERTATION

**TOTAL CREDITS:** THEORY-04  
**TEACHING HOURS:** THEORY-60

### **COURSE OBJECTIVES:**

The objective of this course is to develop students' ability to independently identify, investigate, and analyze a specific problem or topic in their field of study, under the guidance of a faculty supervisor. It aims to equip students with the skills required for systematic research, critical thinking, academic writing, and effective presentation, culminating in the preparation and submission of a comprehensive report or dissertation in accordance with academic and professional standards.

### **COURSE OUTCOMES:**

Upon successful completion of this course, students will be able to:

1. Identify and define a research problem/topic relevant to their field of study, demonstrating the ability to formulate clear research objectives.
2. Apply appropriate research methodologies to gather, analyze, and interpret data in alignment with the selected problem/topic.
3. Prepare a comprehensive, well-structured report/dissertation that meets academic standards for formatting, content, and referencing.
4. Demonstrate critical thinking and problem-solving skills through the investigation and analysis of the chosen research area.
5. Present and defend research findings effectively in a viva-voce examination, addressing questions from experts with clarity and confidence.
6. Adhere to academic integrity and professional ethics throughout the research, writing, and presentation process.

### **COURSE CONTENTS:**

#### **Guidelines for Report/Dissertation Submission and Evaluation**

The Head of the Department (HOD) shall assign a faculty supervisor to each student individually. Under the guidance of the assigned supervisor, the student shall select a problem/topic and, based on the chosen problem/topic, prepare a comprehensive report or dissertation.

The evaluation of the report/dissertation shall take place at the end of the semester, either before or after the university's external examinations. Each student is required to submit a typed copy of their report/dissertation to the department prior to the viva-voce examination.

The viva-voce examination will be conducted in the presence of an external subject expert, who will be appointed by the Controller of Examinations (COE) or the Principal on the recommendation of the HOD. The external examiner may be selected from the following:

1. A permanent Professor, Associate Professor, or Assistant Professor from a postgraduate department of the university or from any constituent college,

**OR**

2. A retired Professor, Associate Professor, or Assistant Professor of the university.

**Evaluation Pattern (100 marks):**

- Field Report / Dissertation (75 marks)
- Viva Voce or Presentation (25 marks)

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