

University of Mumbai



R. P. Gogate College of Arts & Science,

And

**R. V. Jogalekar College of Commerce,
Ratnagiri. (Autonomous)**

Course Structure

Open/General Elective (OE/GE)

Second Semester for F.Y.B.Sc.

Under Choice Based Credit System (CBCS)

To be implemented from

Academic Year 2023 – 24

Syllabus for Autonomous from the year 2023-24.

Name of the Course	DISASTER MANAGEMENT – PRINCIPLES & LIFE SKILLS DEVELOPMENT
Course Code (refer to student handbook)	USOE4
Class	F.Y.B.Sc.
Semester	II
No of Credits	02
Nature	Theory
Type (applicable to NEP only)	OPEN ELECTIVE
Highlight revision specific to employability/ entrepreneurship/ skill development (if any) 100 words	<p><u>Introduction to Disaster Management:</u></p> <p>1) Disaster management is a multidisciplinary field that aims to minimize the impact of disasters on communities and ecosystems. It involves a systematic approach to planning, preparedness, response, recovery, and rehabilitation. By understanding the types of disasters, historical impacts, and key stakeholders, we can develop effective strategies to address these challenges. Disaster risk reduction and mitigation focus on identifying vulnerabilities and implementing measures to reduce risks and build resilience. However, the field faces current challenges, such as the increasing frequency of disasters due to climate change. Embracing innovation and future trends, like community-based approaches and technological advancements, will be vital in enhancing disaster management efforts.</p> <p>2) Disaster Risk Reduction and Mitigation: Disaster risk reduction and mitigation involve comprehensive strategies to identify potential hazards, assess vulnerabilities, and implement measures that reduce risks and enhance resilience. This proactive approach aims to minimize the impact of disasters on communities, infrastructure, and the environment. By incorporating risk assessments and vulnerability analyses, disaster management professionals can develop targeted interventions to enhance preparedness and response capabilities. Furthermore, promoting community participation and public awareness plays a crucial role in building a resilient society capable of effectively handling future disasters.</p> <p>3) Current Issues, Challenges & Innovation and Future Trends in Disaster Management: Disaster management faces numerous challenges, including the exacerbation of disasters by climate change, increased urbanization, and complex humanitarian crises. These issues demand adaptive and innovative approaches to ensure effective disaster preparedness and response. Embracing cutting-edge technology, such as artificial</p>

	<p>intelligence and big data analytics, can revolutionize early warning systems and enhance disaster response coordination. Furthermore, integrating sustainable practices and community-based disaster management approaches will be pivotal in addressing future challenges. Disaster management professionals with entrepreneurial mindsets can explore innovative solutions and technological applications, contributing to the development of resilient communities and sustainable disaster management practices. Building expertise in emerging technologies and fostering a multidisciplinary skill set will enable professionals to excel in this dynamic field, positively impacting employability and entrepreneurship opportunities.</p>
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Nomenclature:-- DISASTER MANAGEMENT – PRINCIPLES & LIFE SKILLS DEVELOPMENT

(OPEN ELECTIVE - F.Y.B.Sc.)

❖ **Course Outcomes:**

- CO1-Learners will be able to articulate the definition, scope, and significance of disaster management, demonstrating a clear understanding of its purpose in mitigating and responding to various disasters effectively. Learners will gain historical insights into major disasters and their impacts, enabling them to analyze past events critically and draw lessons for better disaster preparedness and response in the future. Learners will identify key stakeholders involved in disaster management and understand their respective roles and responsibilities, facilitating collaboration and coordination during all phases of disaster management. Learners will recognize and differentiate between the different types of disasters, including natural disasters, technological disasters, and human-induced disasters, allowing them to tailor specific strategies and approaches for each category.
- CO2 -this course will empower learners to understand, plan, and execute various aspects of disaster management, from risk reduction and mitigation to preparedness, response, and recovery. They will be equipped with the knowledge and skills needed to make meaningful contributions to disaster resilience within their communities and beyond.
- CO3 –Learners will master effective communication strategies during disasters to disseminate critical information and raise public awareness. Learners will develop skills in crafting clear and concise messages for diverse audiences, promoting preparedness and safety, will gain hands-on experience in coordinating responses, identifying strengths and weaknesses for continuous improvement. They will analyze case studies to navigate ethical challenges and legal frameworks in disaster response and recovery. Learners will stay updated on the latest trends, research, and innovations in disaster management. They will critically evaluate and propose solutions to emerging challenges in disaster preparedness and mitigation.

❖ **Curriculum:**

Unit	Title	Learning Points	No of Lectures.
I	<u>Introduction to Disaster Management.</u>	1.1 Definition, scope, and significance of Disaster Management, 1.2 Types of Disasters:- Natural disasters, Technological disasters, Human Induced disasters. 1.3 Historical overview of major disasters and their impact. 1.4 Key stakeholders and their roles in disaster management.	10
II	<u>Disaster Risk Reduction Preparedness and Response.</u>	<u>2.1 Disaster Risk Reduction and Mitigation.</u> Understanding risk assessment and vulnerability analysis. Strategies for disaster risk reduction and resilience building. <u>2.2 Disaster Preparedness.</u> Emergency planning and preparedness measures. Early warning systems and evacuation planning. Resource management and logistics in disaster situations. <u>2.3 Disaster Response.</u> Search and rescue operations. Medical assistance and test in disaster scenarios.	10
III	<u>Current Issues and practical's in Disaster Management.</u>	<u>3.1 Disaster Recovery and Rehabilitation.</u> Psychological and social aspects of disaster impact. Post-disaster needs assessment and recovery planning. Community participation in rehabilitation efforts. <u>3.2 Disaster Communication and Public Awareness.</u> Effective communication strategies in disaster situations. <u>3.3 Practical Exercises and Simulations.</u> Simulated disaster response exercises, - Case studies and group discussions, Field visits.	10

❖ **Learning Resources recommended:**

- (1) Disaster Management and Preparedness, - Nidhi Dhavan, - CBS Publication.- 2012.
- (2) Disaster Management In India – Sunil Hegade- Rajat Publication- 2008.
- (3) Climate change And Disaster Management. -Geeta Singh, - ShivlikPrakashan- 2017.
- (5) आपत्ती व्यवस्थापन- प्रा. ए.पी. चौधरी आणि अर्चना चौधरी.- प्रशांत पब्लिकेशन-२०१६
- (6) आपत्ती व्यवस्थापन – संकल्पना आणि कृती.- कर्नल मराठी , प्रा. गोडबोले,- डायमंड प्रकाशन २०१८.
- (७) आपत्ती व्यवस्थापन – कर्नल अभय पटवर्धन- नचिकेत प्रकाशन, नागपूर-२०११
- (८) आपत्ती व्यवस्थापन- डॉ. रमा भोसले, डॉ. मनीषा पाटील, जुई कुलकर्णी.- फडके प्रकाशन, कोल्हापूर.२००८.

❖ **Teaching plan:**

Unit	Title	Expected date of completion	Teaching methods
I	Introduction to Disaster Management.	31/07/2023	Chalk and Talk, PPT, AV resources
II	Disaster Risk Reduction Preparedness and Response.	31/08/2023	Chalk and Talk, PPT, AV resources
III	Current Issues and practical's in Disaster Management.	13/09/2023	Chalk and Talk, PPT, AV resources/ Field visit/ Problem base/ Project base / Experiential learning

❖ **Evaluation Pattern**

A. Internal Evaluation

Method	Marks
Unit Test.	20
Home Assignment.	10
Active Classroom participation / Presentation/ viva	10
Total	40

B. Semester End Evaluation (Paper Pattern)

Question No	Unit	Particular	Marks
1	I	Long answer question with internal option.	15
2	I	Long answer question with internal option.	15
3	II	Long answer question with internal option.	15
4	I to III	Write short note. (three out of five)	15
Total			60