Lecture Plan

Name of the college: Government College of Arts, Science and Commerce Sanquelim Goa

Name of Faculty: Dr Arati Panshekar	**Subject:** Geography (Natural Hazards and Disasters Risk Reduction)	
Paper code: GOS 111	**Program: FYBSC**	**Division:**
Academic year: 2024 - 2025	**Semester: I**	**Total Lectures: 30**

Course Objectives:

1. Provide an understanding of the definitions and concepts related to natural hazards and disaster risk reduction.
2. Introduce disaster risk reduction strategies and frameworks used to mitigate and prevent the impacts of natural hazards.
3. Develop knowledge and skills in identifying natural hazards and conducting hazard and risk assessments.
4. Understand vulnerability assessment and mapping techniques to identify areas at risk.
5. Familiarize students with early warning systems and their role in disaster preparedness.
6. Study emergency response and management procedures to effectively address immediate needs during disasters.
7. Understand the process of recovery and reconstruction following a disaster, including rehabilitation and livelihood recovery.

Expected Course Outcome:

By the end of this course, students will be able to:

1. **Define and explain** key concepts related to natural hazards and disaster risk reduction.
2. **Understand** the frameworks and strategies used in disaster risk reduction to mitigate and prevent the impacts of natural hazards.
3. **Identify** natural hazards and conduct hazard and risk assessments using appropriate methodologies.
4. **Apply** principles of emergency planning and management in the context of disaster risk reduction and develop strategies for capacity building and training to enhance preparedness and response capabilities.
5. **Understand** the process of recovery and reconstruction following a disaster, including rehabilitation and livelihood recovery.
6. **Assess** the role of international aid and assistance in supporting disaster-affected areas and facilitating recovery.

Student Learning Outcome: Students will grasp key concepts of natural hazards and disaster risk reduction, including risk assessments, vulnerability mapping, and early warning systems. They will gain knowledge of disaster mitigation strategies, emergency response, and recovery processes. Practical skills in hazard identification and risk assessments will be developed. Additionally, students will learn to apply frameworks for disaster preparedness and effective post-disaster recovery.

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
July	01-07-2024	06-07-2024	02	Introduction to Natural Hazards and Disaster Risk Reduction	Mapping, Quiz, Debate	Classroom Teaching	1. Alexander, D. (2013). Resilience and disaster risk reduction: an etymological journey. Natural Hazards and Earth System Sciences, 13(11), 2707-2716. 2. Bankoff, G. (2003). Cultures of disaster: society and natural hazards in the Philippines. Routledge. 3. Burton, I., Kates, R. W., & White, G. F. (1993). The environment as hazard. Guilford Press. 4. Cutter, S. L., Barnes, L., Berry, M., Burton, C., Evans, E., Tate, E., & Webb, J. (2008). A place-based model for understanding community resilience to natural disasters. Global environmental change, 18(4), 598-606. 5. Guha-Sapir, D., Hargitt, D., & Hoyois, P. (2004). Thirty years of natural disasters, 1974-2003: The numbers. Centre for Research on the Epidemiology of Disasters (CRED). 6. McEntire, D. A., & Fuller, C. (2012). FEMA and disaster resilience: A research agenda. Journal of Homeland Security and Emergency Management, 9(1), 1-10.
	08-07-2024	13-07-2024	02	Definitions and concepts of Natural Hazards			
	01-07-2024	06-07-2024	02	Disaster Risk Reduction			
	15-07-2024	20-07-2024	02	Classification of natural hazards			
	22-07-2024	27-07-2024	02	Historical examples of natural disasters			
August	29-07-2024	03-08-2024	02	contemporary examples of natural disasters			
	05-08-2024	10-08-2024	02	Economic impact of disasters			
	12-08-2024	17-08-2024	02	Social impact of disasters			
	19-08-2024	24-08-2024	02	Environmental impact of disasters			
	26-08-2024	31-08-2024	02	Overview of disaster risk reduction strategies			
Sept	02-09-2024	05-09-2024	01	frameworks of disaster risk reduction			
	06-09-2024	12-09-2024	-	Chaturthi vacation			
	13-09-2024	15-09-2024	01	Understanding Hazards and Risk Assessment			
	16-09-2024	21-09-2024	02	Identification of natural hazards			
	23-09-2024	28-09-2024	02	Hazard and risk assessment methodologies			
Oct	30-09-2024	05-10-2024	02	Vulnerability assessment and mapping			
	07-10-2024	12-10-2024	02	Exposure and loss assessment			
	14-10-2024	19-10-2024	02	Hazard mitigation and prevention strategies			
	20-10-2024	22-10-2024	-				

*** Assessment Rubrics**

Component	Max Marks
ISA 1	10
ISA 2	10
Practical	-
Project	-
Semester End Exam	80