

Semester Lecture Plan

Name of the college: Government College of Arts, Science & Commerce, Sanquelim, Goa - 403505

Name of Faculty: Ms. Madhavi Gauns	Academic year: 2024- 2025	Semester: I	Program: FYBSC
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Division:	Subject: Geography	Total Lectures: 25
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Paper code: GOS-111	Paper Name: Natural Hazards and Disaster Risk Reduction
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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:

CO1: Define and explain key concepts related to natural hazards and disaster risk reduction.

CO2: Understand the frameworks and strategies used in disaster risk reduction to mitigate and prevent the impacts of natural hazards.

CO3: Identify natural hazards and conduct hazard and risk assessments using appropriate methodologies.

CO4: 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.

CO5: Understand the process of recovery and reconstruction following a disaster, including rehabilitation and livelihood recovery.

CO6: Assess the role of international aid and assistance in supporting disaster-affected areas and facilitating recovery.

Student Learning Outcome:

LO1: Students will be able to define and explain key concepts related to natural hazards and disaster risk reduction.

LO2: They will be able to understand and apply frameworks and strategies used in disaster risk reduction.

LO3: Also able to identify natural hazards and conduct hazard and risk assessments.

LO4: Students will be able to apply principles of emergency planning and management and develop strategies for capacity building and training.

LO5: They will be able to understand the process of recovery and reconstruction following a disaster.

LO6: Students will be able to assess the role of international aid and assistance in disaster recovery.

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise / Assignment	ICT Tools	Reference books
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July	15/07/2024	20/07/2024	01	<p>Unit 3: Disaster Risk Reduction and Preparedness</p> <ul style="list-style-type: none"> • Introduction to DRR • Definition & meaning of DRR 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
July	22/07/2024	27/07/2024	02	<p>Disaster Risk Reduction and Preparedness</p> <ul style="list-style-type: none"> • Components & challenges of DRR • Importance of preparedness <p>Emergency planning and management</p> <ul style="list-style-type: none"> • Meaning, Components, Challenges & Phases 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
July & August	29/07/2024	03/08/2024	02	<p>Emergency planning and management</p> <ul style="list-style-type: none"> • Disaster risk assessment and analysis • Development of emergency response plans • Roles and responsibilities of various stakeholders • Coordination and communication mechanisms • Evacuation and relocation strategies 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
August	05/08/2024	10/08/2024	02	<p>Early warning systems</p> <ul style="list-style-type: none"> • Types of early warning systems • Data collection and monitoring • Dissemination of early warnings to communities • Public awareness and response to early warnings 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
August	12/08/2024	17/08/2024	02	<p>Community participation and resilience</p> <ul style="list-style-type: none"> • Role of community organizations and volunteers • Traditional knowledge and practices for disaster risk reduction 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017

August	19/08/2024	24/08/2024	02	<p>Capacity building and training</p> <ul style="list-style-type: none"> • Training and education for disaster management professionals • Capacity building for community members • Development of emergency response skills and competence • Role of government agencies and NGOs in capacity building 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
August	26/08/2024	31/08/2024	02	<p>Risk communication and awareness</p> <ul style="list-style-type: none"> • Developing effective risk communication strategies • Dissemination of information through various channels • Public awareness campaigns and education programs • Addressing misinformation and rumours 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
September	02/09/2024	07/09/2024	-----	Chaturthi Break	-----	-----	-----
September	09/09/2024	14/09/2024	02	<p>Unit 4: Disaster Response and Recovery</p> <ul style="list-style-type: none"> • Introduction to Disaster Response and Recovery <p>Emergency response and management</p> <ul style="list-style-type: none"> • Activation of emergency response plans • Coordination and management of search and rescue operations 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017

September	16/09/2024	21/09/2024	02	<p>Emergency response and management</p> <ul style="list-style-type: none"> • Provision of essential services and relief supplies • Addressing immediate needs of affected populations <p>Damage and needs assessment</p> <ul style="list-style-type: none"> • Rapid needs assessment methodologies • Assessment of infrastructure damage and loss of life 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
September	23/09/2024	28/09/2024	02	<p>Damage and needs assessment</p> <ul style="list-style-type: none"> • Identification of priority needs for recovery and rehabilitation <p>Recovery and reconstruction</p> <ul style="list-style-type: none"> • Short-term and long-term recovery planning • Rehabilitation of infrastructure and services 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
September & October	30/09/2024	05/10/2024	02	<p>Recovery and reconstruction</p> <ul style="list-style-type: none"> • Reconstruction of damaged or destroyed buildings • Sustainable development and disaster risk reduction in recovery efforts <p>Rehabilitation and livelihood recovery</p> <ul style="list-style-type: none"> • Providing support for affected communities to rebuild their lives • Livelihood restoration and economic recovery 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017

October	07/10/2024	12/10/2024	02	Rehabilitation and livelihood recovery <ul style="list-style-type: none"> • Psychological support and counseling services • Social protection programs and disaster insurance Role of international aid and assistance <ul style="list-style-type: none"> • Coordination and management of international aid efforts • Role of international organizations and NGOs 		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017
October	14/10/2024	19/10/2024	02	Role of international aid and assistance <ul style="list-style-type: none"> • Humanitarian assistance and relief efforts • Long-term development cooperation and support Revision		Power Point presentation, Smart Board	Dr. Rajan Sahoo, Dr. Tilottama Senapati. Disaster Management & Mitigation, 2017

*** Assessment Rubrics**

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