

Lecture Plan

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

Name of Faculty: Ms. Hema Umesh Sawant

Subject: Geography

Paper code & paper: GOS-211 & Ecology, Environment and Sustainable Development

Program: S.Y.B.Sc.

Division:

Academic year: 2024-25

Semester: III

Total Lectures: 26

Course Objectives:

1. To explain the fundamental ecological concepts such as ecosystems, biodiversity, ecological niche and the interdependence of living organisms and their environment.
2. To give an overview of sustainable development from a geographical perspective.
3. To discuss the importance of biodiversity conservation for ecological stability.
4. To covers key concepts and themes in sustainable development, such as economic growth, environmental protection, social equity, and political governance.
5. The importance of 'thinking ecologically' when approaching complex environmental problems.
6. To examines the challenges and opportunities of sustainable development in different regions and countries, and the role of geography in promoting sustainable development

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

1. Analyse the causes and consequences of environmental degradation
2. Understand the principles of balancing economic, social, and environmental dimensions for sustainability.
3. Evaluate the challenges and opportunities of sustainable development in different regions and countries

4. Develop critical thinking and analytical skills to address sustainability issues

Student Learning Outcome:

After completion of this course, students will be able to:

1. Identify and analyse major environmental issues.
2. Understand the concept of sustainability and its relationship to sustainable development.
3. Evaluate the environmental dimension of sustainable development.
4. Apply spatial analysis techniques to sustainable development.
5. Evaluate the significance of environmental impact assessment (EIA) and environmental quality management.

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be Covered	Exercise/ Assignment	ICT Tools	Reference books
July	22/07/2024	27/07/2024	02 per week	Introduction to the syllabus Major environmental issues, Causes and consequences: Pollution	List out the major pollution.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>

				Major environmental issues, Causes and consequences: Deforestation, Global Boiling and Climate Change.	Document own experiences related to the causes and consequences of deforestation	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
July	29/07/2024	31/07/2024					
August	01/08/2024	03/08/2024		Sustainability conflicts	Observe Sustainability conflicts as complex systems with interconnected elements. (the root causes of conflicts and develop systemic solutions)	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
				Sustainability conflicts		PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	05/08/2024	10/08/2024					
	12/08/2024	17/08/2024			Identify the primary environmental impacts associated with the chosen industry or activity. Consider factors such as pollution (air, water, soil), resource depletion, habitat destruction, and climate change.	PPT, Videos and Smart Board	
			2 lectures per week	Environmental Dimension of Sustainable Development			
				Environmental	Prepare for the	PPT, Videos	Environmental

	19/08/2024	24/08/2024		Dimension of Sustainable Development	ISA II: Written Test	and Smart Board	Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	26/08/2024	31/08/2024		ISA II Spatial analysis and sustainable development	List a Sustainable Development Goals and their role in the present world.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
September	02/09/2024	07/09/2024	2 lectures per week	Spatial analysis and sustainable development	Assess the impact of a policy on spatial patterns and sustainable development goals.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	09/09/2024	14/09/2024		Regional and local approaches to sustainable development	Read on linkages between regional and local resource distribution.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	16/09/2024	21/09/2024		Regional and local approaches to sustainable development	Compare and contrast environmental policies and regulations at different regional or local levels.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	23/09/2024	30/09/2024		Environmental Planning	Write on role of	PPT, Videos	Environmental

October			and Policies	EIA report.	and Smart Board	Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	01/10/2024	05/10/2024	Environmental Impact Assessment (EIA), Management of Environmental Quality	Analyse an EIA report, identifying its key findings and recommendations.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	07/10/2024	12/10/2024	Case studies: The Amazon Rainforest, Renewable Energy Transition in Germany, Sweden's Waste-to-Energy Program	Evaluate the effectiveness of relevant policies or regulations in addressing the environmental challenges highlighted in the case studies.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	14/10/2024	19/10/2024	Case studies: Singapore's Gardens by the Bay, Organic Farming in California's Central Valley	Compare and contrast two or more case studies, focusing on their similarities, differences, and outcomes.	PPT, Videos and Smart Board	Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental Geography</i>
	21/10/2024	22/10/2024	Revision based on the syllabus covered			Environmental Studies by E. Bharucha & Chandna R. C., (2002): <i>Environmental</i>
				2 lectures per week		

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

			<i>Geography</i>
--	--	--	------------------