

		Semester Lecture Plan					
Name of the college: Government College of Arts, Science& Commerce, Sanquelim-Goa							
Name of Faculty: Shweta A. Patil				Subject: Geography- Ecology, Environment and Sustainable Development			
Paper code: GOS -211				Program/Course: BSC		Division:	
Academic year: 2025-2026				Semester: III		Total Lectures: 24	
Course Objectives:. To explain the fundamental ecological concepts such as ecosystems, biodiversity, ecological niche and the interdependence of living organisms 2. To give an overview of sustainable development from a geographical perspective 3. To discuss the importance of biodiversity conservation for ecological sustainability 4. To discuss the themes in sustainable development, such as economic growth, environmental protection, social equity, and political governance 5. The importance of 'thinking globally, acting locally' 6. To examine the complex environmental problems 6. To examine the challenges and opportunities of sustainable development in different regions and countries, and the role of sustainable development							
Course Learning Outcome: By the end of this course, students will be able to: 1. Analyze the causes and consequences of environmental degradation 2. Evaluate the importance of balancing economic, social, and environmental dimensions for sustainability. 3. Evaluate the challenges and opportunities of sustainable development in different countries 4. Develop critical thinking and analytical skills to address sustainability issues							
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Learning Outcome	ICT Tools	Reference
July	14/07/2025	19/07/2025	2	Major environmental issues	Learn about major environmental issues	Board and PowerPoint Presentations	Bharucha E.: Textbook of Environmental Science
	21/07/2025	26/07/2025	2	Causes and consequences: Pollution	Get knowledge about Causes and consequences: Pollution	Board and PowerPoint Presentations	Bharucha E.: Textbook of Environmental Science
	28/07/2025	31/07/2025	2	Causes and consequences: Deforestation	Understand the drivers of	Board and PowerPoint	Bharucha E.: Textbook of Environmental Science

					deforestation and evaluate its ecological, social, and economic impacts at local and global scales	Presentations	
Aug	1/08/2025	2/08/2025	1	Global Boiling and Climate Change	analyze the causes, evidence, and implications of global warming intensifying into “global boiling” and its threats to ecosystems and human societies.	Board and PowerPoint Presentations	Bharucha E.: Textbook of En
	4/08/2025	9/08/2025	2	Sustainability conflicts, a conceptual framework for linking sustainability and sustainable development	Develop the ability to identify and explain conflicts between economic growth, social equity, and environmental protection within the framework of sustainable development.	Board and PowerPoint Presentations	Baker, Susan (2006) Sust Abingdon, Oxon; New Yor concept of su
	11/08/2025	16/08/2025	1	Environmental Dimension of Sustainable Development	xplain how environmental protection underpins sustainable development by maintaining natural resources and ecosystem services.	Board and PowerPoint Presentations	Baker, Susan (2006) Sust Abingdon, Oxon; New Yor concept of su
	18/08/2025	23/08/2025	2	Spatial analysis and sustainable development, Environmental Planning and Policies	Apply spatial analysis tools to assess	Board and PowerPoint Presentations	Baker, Susan (2006) Sust Abingdon, Oxon; New Yor concept of su

					environmental issues and understand how policies guide sustainable land use and resource management.		
September	2/09/2025	6/09/2025	1	Environmental Impact Assessment (EIA)	Acquire knowledge of EIA processes and evaluate their role in predicting, mitigating, and monitoring environmental impacts of development projects.	Board and PowerPoint Presentations	Ayers, Jessica and David Dodgson and development I: the state of the world Studies
	8/09/2025	13/09/2025	2	Management of Environmental Quality, Case studies: The Amazon Rainforest	Assess strategies for managing environmental quality by examining deforestation, conservation, and restoration efforts in the Amazon Rainforest.	Board and PowerPoint Presentations	Ayers, Jessica and David Dodgson and development I: the state of the world Studies
	15/09/2025	20/09/2025	2	Renewable Energy Transition in Germany	Examine Germany's renewable energy transition (Energiewende) to understand the challenges and opportunities in shifting towards sustainable energy systems.	Board and PowerPoint Presentations	Biermann, F., & Pattberg, P. Governance R
	22/09/2025	27/09/2025	2	Sweden's Waste-to-Energy	Analyze Sweden's	Board and	https://www.renova.se/en/or

				Program	waste-to-energy model as a case study in effective waste management and energy recovery for sustainability.	PowerPoint Presentations	
October	1/10/2025	4/10/2025	1	Singapore's Gardens by the Bay	Understand how urban green infrastructure projects like Gardens by the Bay integrate ecological sustainability with urban development.	Board and PowerPoint Presentations	https://www.gardensbythebay.com.sg/
	6/10/2025	11/10/2025	2	Organic Farming in California's Central Valley	Evaluate the benefits and challenges of organic farming in California's Central Valley as a sustainable agricultural practice.	Board and PowerPoint Presentations	https://www.cdfa.ca.gov/is/org/
	13/10/2025	18/10/2025	2	Revision			