

		Semester Lecture Plan						
Name of the college: Government College of Arts, Science & Commerce, Sanquelim -Goa								
Name of Faculty: Ms. Shweta Patil			Subject: Geography					
Paper code: GOS-112			Program/Course: Climate Change and Natural Resource Management			Division: -		
Academic year: 2025-2026			Semester-II			Total Lectures: 31		
<p>Course Objectives: Foundations in Geography is an introductory course that provide students with a comprehensive understanding of the discipline of Geography, its fundamental concepts and principles. This course aims to develop students' spatial thinking skills and geographic literacy by introducing them to the basic concepts of geographic analysis. Further, the objective of the practical component is to equip students with technical knowledge and computer skills necessary to pursue a career in the field of Geospatial Technology.</p>								
<p>Course Learning Outcome: By the end of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Analyse the historical roots of geography and its basic concepts. 2. Identify the inter-disciplinary, intra-disciplinary, and multi-disciplinary nature of Geography 3. Understand the Earth and its spatial relations to Universe, galaxies, solar system, and the positions of celestial bodies 4. Develop the ability to represent geospatial data using various techniques such as histograms, bar graphs, line graphs, scatter diagrams, pie diagrams, trend lines etc. 								
Month	Lectures From:		To:	No. of lectures allotted	Topic, Subtopic to be covered	Learning Outcome	ICT Tools	Reference books
December	1/12/2025	6/12/2025	02	Introduction to Climate Change and Natural Resource Management		Able to understand the basics of climate change and the principles of sustainable natural resource management.	Board and PowerPoint Presentations	1. Bhatia, K.K. <i>Geography of Travel and Tourism in India</i> .

	8/12/2025	13/12/2025	02	Causes and consequences of climate change	Able to understand the factors leading to climate change and analyze its environmental, social, and economic impacts.	Board and PowerPoint Presentations	Concept Publishing Company, 2007. 2. Dhar, P.N. <i>International Tourism: Emerging Challenges and Future Prospects.</i> Kanishka, New Delhi, 2006.
	15/12/2025	20/12/2025	02	Natural resource management and sustainable development	Able to understand the principles of natural resource management and their role in promoting sustainable development.	Board and PowerPoint Presentations	3. Dube, R.C. <i>Tourism in India.</i> Sterling Publishers Pvt. Ltd, 2007.
	22/12/2025	23/12/2025	1	International policy frameworks and agreements related to climate change	Able to understand and analyze global climate policies and agreements and their role in addressing climate change at the international level.	Board and PowerPoint Presentations	4. Dixit, Manoj. <i>Tourism: Concepts and Practices.</i> Aavishkar Publishers, 2006.
January	05/01/2026	10/01/2026	02	Impacts of Climate Change on Natural Resource Management	Able to analyze how climate change affects the management and sustainability of natural resources.	Board and PowerPoint Presentations	5. de Blij, Harm J., Peter O. Muller, and Jan Nijman. <i>Geography: Realms, Regions, and Concepts.</i> Wiley, 2017.
	12/01/2026	17/01/2026	02	Impacts on water resources, biodiversity,	Able to understand and evaluate the effects of climate change on water	Board and PowerPoint Presentations	6. Hall, M. and Stephen, P. <i>Geography of Tourism and</i>

					resources and biodiversity		<p><i>Recreation – Environment, Place and Space.</i> Routledge, London, 2006.</p> <p>7. Kamra, K. K. and Chand, M. <i>Basics of Tourism: Theory, Operation and Practise.</i> Kanishka Publishers, Pune, 2007.</p> <p>8. Liu, Harvey Y. H., and Linda D. K. Nozick. <i>GIS for Travel and Tourism.</i> Springer, 2004.</p> <p>9. Page, S. J. <i>Tourism Management: An Introduction.</i> Butterworth-Heinemann- USA, 2011. Chapter 2.</p>
	19/01/2026	24/01/2026	02	Impacts on forestry, agriculture	Able to analyze the effects of climate change on forestry and agricultural systems.	Board and PowerPoint Presentations	
	26/01/2026	31/01/2026	02	Impacts on fisheries	Able to understand and evaluate the effects of climate change on fisheries and aquatic ecosystems	Board and PowerPoint Presentations	
February	2/02/2026	7/02/2026	02	Vulnerability and adaptation of ecosystems and communities	Able to analyze the vulnerability of ecosystems and communities to climate change and assess strategies for adaptation.	Board and PowerPoint Presentations	
	09/02/2026	14/02/2026	02	Case studies of climate change impacts and adaptation measures in different regions	Able to examine real-world examples of climate change impacts and the adaptation strategies implemented in different regions.	Board and PowerPoint Presentations	

	16/02/2026	21/02/2026	02	Adaptation and Mitigation Strategies for Climate Change	Able to understand and apply strategies for adapting to and mitigating the effects of climate change.	Board and PowerPoint Presentations	
	23/02/2026	28/02/2026	02	Ecosystem-based approaches to adaptation	Able to understand and apply ecosystem-based strategies to enhance resilience and adaptation to climate change.	Board and PowerPoint Presentations	
March	02/03/2026	07/03/2026	01	Sustainable land management practices	Able to apply ecosystem-based strategies to improve resilience and support adaptation to climate change.	Board and PowerPoint Presentations	
	09/03/2026	14/03/2026	02	Renewable energy technologies and low-carbon development	Able to understand and evaluate renewable energy technologies and strategies for promoting low-carbon sustainable development.	Board and PowerPoint Presentations	
	16/03/2026	21/03/2026	02	Mitigation strategies for greenhouse gas emissions	Able to analyze and implement strategies to reduce greenhouse gas emissions and mitigate climate change	Board and PowerPoint Presentations	

	23/03/2026	28/03/2026	02	Case studies of successful adaptation and mitigation strategies	Able to examine real-world examples of effective adaptation and mitigation strategies for addressing climate change.		
	30/03/2026	31/03/2026	01	Revision			