

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 & Title: GOS 100 & Foundation in Physical Geography	Program: F.Y.B.Sc.	Division: NIL
Academic year: 2024-25	Semester: II	Total Lectures: 17
Course Objectives: <ol style="list-style-type: none"> 1. To introduce students to the fundamental concepts and principles of physical geography 2. To provide an overview of the major branches of physical geography and their interconnections 3. To develop students' understanding of the structure and composition of the earth's lithosphere, atmosphere, hydrosphere and biosphere 4. To examine the impact of human activities on the earth system and associated environmental issues 5. To equip students with the skills necessary for spatial analysis, critical thinking, and scientific inquiry in physical geography. 		
Course Outcome: <ul style="list-style-type: none"> · By the end of this course, students will be able to: · They will be able to explain the theory of plate tectonics and its implications for the formation of continents and mountain ranges. · They will be able to identify and describe the major types of weathering and erosion. · They will be able to interpret climate diagrams and explain the factors that influence climate. · They will be able to analyze the distribution of vegetation and biodiversity across different biomes. 		

<ul style="list-style-type: none"> · They will be able to use GIS software to create maps and analyze spatial data related to environmental issues. · They will be able to evaluate the impact of human activities on water resources and propose solutions for sustainable water management. 							
Student Learning Outcome: <ul style="list-style-type: none"> · Define and explain the nature and scope of Physical Geography, understanding its key concepts and sub-disciplines. · Identify and describe the major branches of Physical Geography, including Geo morphology, Climatology, Oceanography, Soil Geography, and Bio-geography, and their interconnections. · Explain the Earth's origin, shape, and size, and understand the implications of its movements (rotation and revolution) on various phenomena. · Describe the Earth's domains (Lithosphere, Atmosphere, Hydrosphere, and Biosphere), their characteristics, and their interactions within the Earth system. · Analyze the composition and structure of the Lithosphere, including the distribution of continents and oceans, and understand different orders of relief. · Explain the composition and structure of the Atmosphere, and identify the key elements of weather and climate. · Understand the role of the Sun as the primary source of energy, including insolation, factors affecting it, and the global heat budget. · Describe the composition and distribution of water on Earth within the context of the hydro logical cycle. 							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December	09/12/2024	14/12/2024	01 per week	Introduction to Physical Geography	Express your views on importance of learning physical geography.	Google Maps, Videos & PPT	Physical Geography by Savindra Singh Physical Geography by R. L. Singh
				Introduction to Physical			

December	16/12/2024	23/12/2024	1 lecture s per week	Geography: Meaning, Definitions, Nature and Scope of Physical Geography				
				Introduction to Physical Geography: Meaning, Definitions, Nature and Scope of Physical Geography				
January	01/01/2025	04/01/2025		Branches of Physical Geography (Geo morphology, Climatology, Oceanography, Soil Geography and Bio geography)	Observe the effects of weathering and erosion by creating a mini landscape and simulating wind, water, or ice.	Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh	
	06/01/2025	11/01/2025		Branches of Physical Geography (Geo morphology, Climatology, Oceanography, Soil Geography and Bio geography)	Evaluate different climate change mitigation and adaptation policies.	Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh	
				Branches of Physical	Evaluate	Google		

	13/01/2025	18/01/2025		Geography (Geo morphology, Climatology, Oceanography, Soil Geography and Bio geography)	different climate change mitigation and adaptation policies.	Maps, PPT & Videos	
	20/01/2025	25/01/2025		Branches of Physical Geography (Geo morphology, Climatology, Oceanography, Soil Geography and Bio geography)	Connect and jot down oceanography concepts to real-world issues, such as climate change, overfishing, and coastal erosion.	Google Maps, T & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	27/01/2025	31/01/2025		Branches of Physical Geography (Geo morphology, Climatology, Oceanography, Soil Geography and Bio geography)			Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
February	01/02/2025	08/02/2025	1 lecture s per	Origin, Shape and Size of the Earth	Discuss on the benefits of earth in short.	Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	10/02/2025	15/02/2025		Origin, Shape and Size of the Earth		Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	17/02/2025	22/02/2025		Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth, Coordinates -Latitude,		Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh

				Longitude and Time.			
	24/02/2025	28/02/2025		Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth, Coordinates -Latitude, Longitude and Time.		Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
						Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
March	01/03/2025	8/03/2025		Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth, Coordinates -Latitude, Longitude and Time.	Figure out the effects of movements of the earth. Draw a neat and clean diagram of water cycle.	PPT & PDF	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	10/03/2025	15/03/2025		Carbon cycle, nitrogen cycle, water cycle	List out causes of ozone layer depletion	Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	17/03/2025	22/03/2025		Ozone depletion, & floods		Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	24/03/2025	31/03/2025		floods, droughts, weather variations, sea level rise,		Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
	01/04/2025	05/04/2025		changing ecosystems, snow / glaciers melting and impact of pollution.	Write a note on climate change and its impact.	Google Maps, PPT & Videos	Physical Geographyby Savindra Singh Physical Geography by R. L. Singh
April	07/04/2025	11/04/2025	1 lecture s per week	Revision	Study for the exam.	PPT & PDF	

**Assessment
Rubrics**

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