

LORETO COLLEGE
SEMESTER ONE GEOGRAPHY
MINOR
TIME PLAN 2025

Name of the teacher: Dr. Sushma Sahai
Initials: SWS

Teaching Objective:

- To understand the relationship between seismic waves and Earth's internal structure
- To foster scientific reasoning and appreciation of Earth science
- To understand the nature of fluvial processes
- To analyze the formation of fluvial landforms
- To understand the nature and circulation of the atmosphere
- Comprehend the soil forming factors
- To enable students to understand the evolution of a soil profile
- To provide guidance beyond prescribed syllabus

Semester One Geography Minor Topic-wise Time Plan
COURSE: GEOG-CC-01-TH – PHYSICAL
GEOGRAPHY

Topics	Hours allotted	Topics (as per curriculum)	Teaching method	Learning outcome (output)	Assessment
1	3	Unit II: Geotectonics 2. Seismic waves and internal structure of the earth	• Technology based learning	<ul style="list-style-type: none"> • Explain the different types of seismic waves and their properties • Differentiate between lithosphere, asthenosphere, mantle, outer core, and inner core based on seismic evidence • Connect the study of seismic waves to broader geophysical phenomena such as plate tectonics and volcanism 	<ul style="list-style-type: none"> • Open book assessment
2	5	Unit III: Geomorphology 4. Fluvial processes and landforms	• Technology based learning		<ul style="list-style-type: none"> • Tutorial

3	4	Unit IV: Climatology 5. Nature, Composition and layering of the atmosphere	<ul style="list-style-type: none"> Technology based learning Asynchronous teaching Blended learning 	<ul style="list-style-type: none"> Comprehend the physical and chemical composition of the atmosphere and its role in sustaining life on Earth. Identify and describe the characteristics and functions of the different atmospheric layers 	<ul style="list-style-type: none"> Tutorial
4	5	6. Circulation in the atmosphere: Planetary winds, jet streams, index cycle	<ul style="list-style-type: none"> Technology based learning Blended learning 	<ul style="list-style-type: none"> Examine the mechanisms driving atmospheric circulation, including planetary wind systems and their global patterns. Analyze the formation and index cycle of jet streams 	<ul style="list-style-type: none"> Open book assessment Assignment
5	4.	Unit V: Soil Geography 7. Factors of soil formation	<ul style="list-style-type: none"> Technology based learning Asynchronous teaching Group-Learning and teaching 	<ul style="list-style-type: none"> Understand and explain the major factors influencing soil formation Analyze how the interaction of various soil-forming factors contributes to the development of different soil types 	<ul style="list-style-type: none"> Peer assessment
6	4	8. Evolution of an ideal soil profile	<ul style="list-style-type: none"> Technology based learning Blended 	<ul style="list-style-type: none"> Identify and describe the horizons of an ideal soil profile and their physical and chemical characteristics. Evaluate the processes involved in the development and transformation of soil horizons over time. 	<ul style="list-style-type: none"> Case study Assignment

LORETO COLLEGE
GEOGRAPHY TIME PLAN 2025

Semester 1 (Minor)

Name of the teacher: Dr. Ambika Roy Bardhan

Initials: A.R

Teaching Objective:

- Explain the concept of maps, scales and projections and their importance in Geography.
- Classify the various types of weathering with examples and the different agents of erosion.
- Analyse how water availability determines plant adaptations and distribution across the globe.
- Differentiate between hazards and disasters and classify them.

Topics	Hours allotted	Topics (as per curriculum)	Teaching method	Learning outcome (output)	Assessment
(Paper: GEOG-H-CC01/MD-CC01-1/3-Th -Physical Geography)					
Plant adaptation and distribution in relation to water availability	1 hour 30 minutes	9. Plant adaptation and distribution in relation to water availability	. Group Learning and Teaching . Technology based learning	. Classify various types of plants according to water availability. . Identify the various types of plants adaptations and their distributions based on water availability	
Nature and classification of hazards and disasters in Indian context	1 hour 30 minutes	10. Nature and classification of hazards and disasters in Indian context	. Group Learning and Teaching . Technology based learning	. Distinguish between Hazard and Disaster . Explain the concepts and the relationships among Risk, Vulnerability and Capacity. . Classify Hazards and Disasters in the Indian context.	

(Paper: GEOG-H-CC01/MD-CC01-1/3-P -Physical Geography)

Linear Scale	3 hours	1.Graphical Construction of Scales: Plain, Comparative, Diagonal, and Vernier	Learning through problem solving	<ul style="list-style-type: none"> . Define the various types of scales . List the properties of different types of scales . Infer the merits and demerits of various types of scales. . Differentiate among the various types of scales . Calculate and draw linear scale 	Assignments
Vernier Scale	3 hours	1.Graphical Construction of Scales: Plain, Comparative, Diagonal, and Vernier	Learning through problem solving	Calculate and draw vernier scale	Assignments
Drainage patterns	1 hour 30 minutes	3. Identification of drainage and channel patterns from Survey of India 1:50k topographical maps.	<ul style="list-style-type: none"> . Experiential Learning . Learning through problem solving 	<ul style="list-style-type: none"> . Identify different types of drainage patterns . Draw different types of drainage patterns 	Assignments
Channel patterns	1 hour 30 minutes	3. Identification of drainage and channel patterns from Survey of India 1:50k topographical maps.	<ul style="list-style-type: none"> . Experiential Learning . Learning through problem solving 	<ul style="list-style-type: none"> . Identify different types of channel patterns . Draw different types of channel patterns 	Assignments