LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

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

Teaching Objective:

- To help students understand the origin, Heat budget of the atmosphere
- Analyze the factors influencing insolation
- Comprehend the types, causes and consequences of Inversion of temperature
- Assess and evaluate the factors of climate change
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

Semester Four Geography Major Topic-wise Time Plan

GEOG - H-CC -6 -TH – CLIMATOLOGY

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1. **Unit I: Elements of the Atmosphere**	3	1. Insolation: Controlling factors. Heat budget of the atmosphere	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Comprehend the factors influencing insolation	• Tutorials • Quiz
2	4	2. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences	• Lecture method • Stimulus Response Method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Differentiate between horizontal and vertical distribution of temperature	• Tutorials • Home assignments

3	6	3. Overview of climate change: Causes, trends, and predictions of global temperature rise since 1850 CE. Formation, depletion, restoration, and significance of the ozone layer	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the mechanism of Greenhouse effect • Comprehend and analyse the depletion of the Ozone layer	• Crossword • Book Review
Unit II: Atmospheric Phenomena & Climatic Classification	6	8. Atmospheric disturbances: Tropical cyclones & thunderstorms	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the origin, types and consequences of atmospheric disturbances	• Tutorials • Home assignments •
2	4	10. Climatic classification after Thornthwaite (1948) & Koppen (1936)	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the significance of climatic classification • Differentiate between Thornthwaite & Koppen classifications	• Tutorials • Presentations

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

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

Teaching Objective:

- To enable students to interpret Weather Maps
- Impart the skill to identify the Weather maps of different seasons
- Construction rainfall dispersion diagram and Climate water budget
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

4TH Semester Geography Major Topic-wise Time Plan
GEO-A-CC-5-P – CLIMATOLOGY LAB (PRACTICAL)

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1.	12	2. Interpretation of a daily weather map of India (any two): Pre-Monsoon, Monsoon and Post-Monsoon	• Lecture method • Stimulus Response Method • Discussion/ Interactive method	• Comprehend and assess the climatic parameters provided in weather maps • Skilled to apply the above knowledge to identify weather maps of different seasons	• Tutorials • Home assignments • Viva Voce
2	6	3. Construction and interpretation of monthly rainfall dispersion diagram (quartile method). Climate water budget	• Lecture method • Stimulus Response Method • Discussion/ Interactive method	• Acquire the skill of constructing and interpreting rainfall dispersion diagram and climate water budget	• Tutorials • Home assignments • Viva Voce

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

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

Teaching Objective:

- To help students understand the origin and nature of the ocean floor
- Analyse the factor for social differentiation and region formation
- Provide an in depth knowledge of the Social welfare schemes
- Assess the social indicators of development
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

4th Semester Geography Major Topic-wise Time Plan
GEOG -CC-07-TH Social Geography

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1.	3	Unit 1: Concepts 3. Social differentiation and region formation	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the origin and characteristics of the ocean floor	• Tutorials • Paper presentations
2	3	Unit II: Social Issues 4. Social indicators of development: Education and health	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Assess the physical and chemical properties of ocean water	• Tutorials • Home assignments
3	6	9. Social welfare schemes for tribes, women and children	• Lecture method	• Differentiate between	• Tutorials

			• Stimulus Response Method • Discussion/ Interactive method • Visual aids	different Water masses • Comprehend the T-S diagram	

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

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

Teaching Objective:

- To enable students to construct cartograms
- To help students to prepare questionnaire on socio-economic status
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

4th Semester Geography Major Topic-wise Time Plan
GEOG -CC-07- P- Social Geography Lab

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1.	5	3. Construction and interpretation of cartograms showing distribution of people living below poverty line in India	• Discussion method • Interactive method	• Comprehend, assess and acquire the skill to construct cartograms	• Tutorials • Home assignments • Viva Voce
2	7	4. Preparation of a questionnaire on socio-economic status/ access to amenities in slum areas (rural or urban)	• Discussion method • Interactive method	• Acquire the skill of constructing and interpreting rainfall dispersion diagram and climate water budget	• Tutorials • Home assignments • Viva Voce

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

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

Teaching Objective:

- To enable students to construct thematic maps
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

4th Semester Geography Major Topic-wise Time Plan
GEOG -CC-08- P- Cartographic Techniques Lab

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1.	8	3. Construction and interpretation of thematic maps: Dasymetric density, Isopleth, and Chorochromatic maps	• Discussion method • Interactive method	• Comprehend, assess and acquire the skill to construct thematic maps	• Tutorials • Home assignments • Viva Voce

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

Name of the teacher: Mrs S. Sethwala
Initials: S.S

Teaching Objectives

- To provide an overview of different landform forming processes
- To help the student relate the theoretical knowledge to field work
- To build core concepts

Semester IV Major Topic-wise Time Plan

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1. CC 5 TH Geomorphology	20	1. Time and space in geomorphology 2. Degradationalm processes- mass wasting and landforms 3. River network and landforms on uniclinal and folded structure 4. River network - landforms on granite , basalt and limestones 9. Models - Davis, Penck , King and Hack	lecture method project method problem solving method	• Able to familiarise with the fluvial processes • Able to recognise types of drainage on different structures	• class tests • Objective • worksheets • home assignments • exams • Presentation assigned group wise
1. CC 5 PR Geomorphology Lab	20	4.Determination of channel sinuosity index	Lecture method Demonstration method Problem solving method	• Able to establish relationship between slope , gradient and drainage	• Class tests • Case study
2. CC 7 TH Social Geography	20	1. Nature , scope and content 2. Social structure, Social process 7.Social problems in urban areas 10.Social segregation	lecture method class discussion Problem solving method	• To be able to identify the causes, effects, and solutions for social change and contemporary social issues	• class tests • MCQ /Objective • Worksheets • home assignments • case study • exams
3 . CC 8 TH Cartographic Techniques	15	4.Concept of geoid , spheroid 5. map projections - classification , properties, uses 6. Polar Zenithal, Simple conic, Bonnes, Cylindrical , Mercators 7. UTM	lecture method Demonstration method Practical exercises	• To be able to understand how different types of maps are made and their different uses	• class tests • home assignments • exams

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

Name of the teacher: Kaustuva Banerjee
Initials: KB

Teaching Objective:

- Comprehend the role of various national agencies in the preparation of maps.
- Evaluate the importance of GIS in map making.
- Justify the basic principles of data representation.
- Analyse the method of computation of different development indices.

Geography Semester IV Major Topic-wise Time Plan

Topics	***Hours allotted***	***Topics (as per curriculum)***	***Teaching method***	***Learning outcome (output)***	***Assessment***
1. GEOG-H-CC08-4-Th – Cartographic Techniques	20	Coordinate systems: Polar and rectangular Grids: Angular and linear systems of measurement Bearing: Magnetic and true, whole-circle and reduced Representation of data using dots, spheres, and divided proportional circles Representation of data using isopleth, choropleth, and chorochromatic maps Survey of India topographical maps: Reference scheme of old and open series. Information on the margin of maps	Lecture Method Stimulus Response Method Discussion Method Interaction Method	1. Comprehend the importance of bearing in preparing maps. 2. Analyse the difference between angular and linear measurements 3.Evaluate the role of cartograms	Continuous Internal Assessment Formative Assessment Internal Assessment
2. GEOG-H-CC07-4-P – Social Geography	10	Preparation of human development index (after UNDP) Preparation of gender development index (after UNDP)	Lecture Method Demonstration Method Laboratory Method	1. Differentiate between HDI and GDI 2. Understand the concept of Development indices	Continuous Internal Assessment Formative Assessment

LORETO COLLEGE
SEMESTER FOUR GEOGRAPHY MAJOR
TIME PLAN 2025

Name of the teacher: DEBASREE SINHA
Initials: D.S

Teaching Objective:

- Provide an understanding of processes responsible for landform development on Earth.
- Sensitize students about the significance of the atmospheric processes and their impact on the planet.
- Inculcate awareness about India's social problems and ideas of social justice.

4th Semester Major Course Topic-wise Time Plan

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1. GEOG-H-CC05-4-Th – (Theory) Geomorphology	31	3. Processes of entrainment, transportation, and deposition by different geomorphic agents 5. Development of river network and landforms on granites, basalts, and limestones 6. Coastal processes and landforms 7. Glacial and glacio-fluvial processes and landforms 8. Aeolian and fluvio-aeolian processes and landforms 10. Role of humans in landform development	1. Lecture 2. Power point presentation	Students will be able to: 1. Explain the existence of the large variety of landforms on the Earth. 2. Account for the processes responsible for landform development. 3. Identify processes & landforms on field. 4. Understand the consequences of human-environment interactions on landforms.	1. Written class test
2. GEOG-H-CC06-4-Th – (Theory) Climatology	22	4. Condensation: Process and forms. Mechanism of precipitation: Bergeron-Findeisen theory, and collision & coalescence theory. Forms of precipitation	1. Lecture 2. Power point presentation	Students s will be able to: 1. Conceptualize key atmospheric processes 2. Understand global atmospheric circulations	1. Written class test

		5. Air mass: Typology, origin, characteristics, and modification 6. Types of fronts. Frontogenesis and frontolysis 7. Weather: Stability and instability, barotropic and baroclinic conditions		3. Establish linkages between changes in the atmospheric processes & their impact on Earth's weather & climate. 4. Have a comprehensive grasp of the Indian monsoon	
3. GEOG-H-CC07-4-Th – (Theory) Social Geography	14	5. Concepts of social justice and social security with examples from India 6. Contemporary social issues: Gender related problems 8. Social problems in rural areas: Marginalisation and deprivation	1. Lecture 2. Power point presentation	Students s will be able to: 1. Understand the importance of social justice and security in India. 2. Discern the existence of gender related, as well as other social issues and problems.	1. Written class test 2. Student presentations