

**LORETO COLLEGE**  
**FOURTH SEMESTER GEOGRAPHY HONOURS**  
**TIME PLAN 2024**

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

**Teaching Objective:**

- To impart comprehensive knowledge of the various cartographic techniques
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

**Semester Four Geography Honours Topic-wise Time Plan**  
**COURSE: 2.16 GEO-A-CC-4-08-P – ECONOMIC GEOGRAPHY LAB (PRACTICAL)**

<i>Topics</i>	<i>Hours allotted</i>	<i>Topics (as per curriculum)</i>	<i>Teaching method</i>	<i>Learning outcome (output)</i>	<i>Assessment</i>
1	10	1. Choropleth mapping of state-wise variation in GDP	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> </ul>	<ul style="list-style-type: none"> <li>• Developed skills to plot the cartogram</li> <li>• Acquired the knowledge of selecting the appropriate cartogram based on the data provided</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorials - Solve past question papers</li> <li>• Viva Voce</li> </ul>
2	15	2. State-wise variation in occupational structure by proportional divided circles	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> </ul>	<ul style="list-style-type: none"> <li>• Developed skills to plot the cartogram</li> <li>• Acquired the knowledge of selecting the appropriate cartogram based on the data provided</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorials- Solve past question papers</li> <li>• Home assignments</li> <li>• Viva Voce</li> </ul>

**LORETO COLLEGE**  
**FOURTH SEMESTER GEOGRAPHY HONOURS**  
**TIME PLAN 2024**

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

**Teaching Objective:**

- To impart comprehensive knowledge of the subject matter of biogeography
- Develop the skill to comprehend the functioning of ecosystems
- To enable students to understand the complex bio-geographical issues
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

**Semester Four Geography Honours Topic-wise Time Plan**  
**COURSE: 2.19 GEO-A-CC-4-10-TH-SOILS AND BIOGEOGRAPHY**  
**(THEORY)**

**Unit II: Biogeography**

<b>Topics</b>	<b>Hours allotted</b>	<b>Topics (as per curriculum)</b>	<b>Teaching method</b>	<b>Learning outcome (output)</b>	<b>Assessment</b>
1	5	7. Concepts of biosphere, ecosystem, biome, ecotone, community and ecology	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> <li>• Visual aids</li> </ul>	<ul style="list-style-type: none"> <li>• Comprehend the concept of ecosystem, biome, ecotone and ecology</li> <li>• Understand to differentiate between biosphere and ecosystem</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorial</li> <li>• Home assignments</li> </ul>
2	5	8. Concepts of trophic structure, food chain and food web. Energy flow in ecosystems	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> <li>• Visual aids</li> </ul>	<ul style="list-style-type: none"> <li>• Comprehend the concept of trophic structure</li> <li>• Differentiate between food chain and food web</li> <li>• Understand the dynamics of energy flow in ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorial</li> <li>• Quiz</li> </ul>
4.	4	10. Bio-geochemical cycles with special reference to	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the dynamics of the bio-</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorial</li> <li>• Home assignments</li> </ul>

		carbon dioxide and nitrogen	Interactive method • Visual aids	geochemical cycles	
5.	4	11. Deforestation: Causes, consequences and management	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> <li>• Visual aids</li> </ul>	<ul style="list-style-type: none"> <li>• Equipped to Identify causes of deforestation</li> <li>• Knowledge of types of conservation methods</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorial</li> <li>• Home assignments</li> </ul>
6	4	12. Biodiversity: Definition, types, threats and conservation measures	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> <li>• Visual aids</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledge of types, threats and conservation of biodiversity</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> </ul>

**LORETO COLLEGE**  
**FOURTH SEMESTER GEOGRAPHY HONOURS**  
**TIME PLAN 2024**

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

**Teaching Objective:**

- To impart comprehensive knowledge of diversity of plants
- Develop the skill to comprehend the variety of biogeography data
- To enable students to understand the complex procedure of matrix method
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

**Semester Four Geography Honours Topic-wise Time Plan**  
**COURSE: 2.20 GEO-A-CC-4-10-P-SOILS AND BIOGEOGRAPHY**  
**(PRACTICAL)**

<i>Topics</i>	<i>Hours allotted</i>	<i>Topics (as per curriculum)</i>	<i>Teaching method</i>	<i>Learning outcome (output)</i>	<i>Assessment</i>
1	10	3.Plant species diversity determination by matrix method	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> <li>• Hands-on training on developing a matrix</li> </ul>	<ul style="list-style-type: none"> <li>• Comprehend the concept of matrix method</li> <li>• Understand to determine plant species diversity</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorial</li> <li>• Viva Voce</li> </ul>
2	20	4. Time series analysis of biogeography data	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Discussion/ Interactive method</li> </ul>	<ul style="list-style-type: none"> <li>• Comprehend the concept of time series analysis</li> <li>• Understand the dynamics of interpreting flow in ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>• Tutorial</li> <li>• Home assignments</li> <li>• Viva Voce</li> </ul>

**LORETO COLLEGE**  
**FOURTH SEMESTER GEOGRAPHY HONOURS**  
**TIME PLAN 2024**

**Name of the teacher: Dr. Sushma Sahai**

**Initials: SWS**

**Teaching Objective:**

- To impart comprehensive knowledge of the concept of sustainable development
- To enable students to understand the components and limitations of sustainable development
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

**Semester Four Geography Honours Topic-wise Time Plan**

**COURSE: 4.4 GEO - A- SEC-B- 4-04-TH-SUSTAINABLE DEVELOPMENT (THEORY)**

<b>Topics</b>	<b>Hours allotted</b>	<b>Topics (as per curriculum)</b>	<b>Teaching method</b>	<b>Learning outcome (output)</b>	<b>Assessment</b>
1	5	1.Sustainable development: Concept, Historical background, components and limitations	<ul style="list-style-type: none"><li>• Lecture method</li><li>• Discussion/ Interactive method</li><li>• Visual aids</li></ul>	<ul style="list-style-type: none"><li>• Comprehend the concept of sustainable development</li><li>• Understand the various components and limitations</li></ul>	<ul style="list-style-type: none"><li>• Tutorial</li><li>• Home assignments</li></ul>

**LORETO COLLEGE**  
**SEMESTER FOUR GEOGRAPHY HONOURS**  
**TIME PLAN 2024**

**Name of the teacher: Sharmila Ray Kumam**

**Initials: SRK**

**Teaching Objective:**

- Develop the capability to understand the driving forces behind variations in economic activities and their specific location over space.
- The underlying causes of spatial disparity in development and to analyse the factors for the delineation of the metropolitan regions.

**4<sup>th</sup> Semester Topic-wise Time Plan**

<b>Topics GEO-A-CC- 4-08-TH</b>	<b>Hours allotted</b>	<b>Topics (as per curriculum)</b>	<b>Teaching method</b>	<b>Learning outcome (output)</b>	<b>Assessment</b>
Unit II Economic Activities	4	5. Concept and Classification of economic activity	Lecture	Comprehension of the idea and categories of economic activities	Q&A
6.	6	6. Factors affecting economic activity with special reference to agriculture (Von Thunen) industry (Weber)	Lecture and example	A deep understanding by application of local visit	Analysis and discussion Tutorial
7	6	Primary activity: Agriculture, forestry, fishing, mining	Lecture and case studies	Gain the knowledge about each type with examples	Presentations

<b>GEO-A-CC-4-09-TH</b> <b>Regional Planning &amp; Development</b> Regional Development in India- Disparity and Diversity	3	Regional Development in India- Disparity & Diversity	Case studies of Indian states	Develop a proper understanding of the existing regional disparity and diversity	Each student works on a state with development parameters to bring out the diversity
	4	Concept and causes of Underdevelopment	Lecture and discussions	Understanding the characteristics and reasons for this phenomenon	Presentations on case studies

**LORETO COLLEGE  
GEOGRAPHY TIME PLAN 2024**

**Name of the teacher: Kaustuva Banerjee**  
**Initials: KB**

**Teaching Objective:**

- Evaluate the importance of GIS in map making.
- Justify the basic principles of Remote Sensing.
- Analyse the concept of surveying and levelling.

**Geography Semester IV (General) Topic-wise Time Plan**

<b>Topics</b>	<b>Hours allotted</b>	<b>Topics (as per curriculum)</b>	<b>Teaching method</b>	<b>Learning outcome (output)</b>	<b>Assessment</b>
1. GEO-G-CC-4-04-TH – Cartography Unit I:	4 hrs	Coordinate systems: Polar and rectangular. Bearing: Magnetic and true, whole-circle and reduced	Lecture Method  Stimulus Response Method  Discussion Method  Interaction Method	1. Comprehend the importance of Coordinate systems. 2. Analyze the difference between Bearings. 3. Evaluate the role of Magnetic Bearing	Continuous Internal Assessment  Formative Assessment  Internal Assessment
2. GEO-G-CC-4-04-TH – Cartography Unit III:	20hrs	Basics of Remote Sensing: Types of satellites, sensors, bands, and resolutions with special reference to the ISRO missions Principles of preparing standard FCCs and classified raster images Principles of Geographical Information System: Concepts of vector types, attribute tables, buffers, and overlay analysis	Lecture Method  Demonstration Method  Laboratory Method	1. Differentiate between different types of sensors and satellites. 2. Understand the concept of GIS	Continuous Internal Assessment  Formative Assessment
3. GEO-G-CC-4-04-TH – Cartography Unit IV	8hrs	Basic concepts of surveying and survey equipment: Prismatic compass Basic concepts of surveying and survey equipment: Dumpy level	Lecture Method  Stimulus-Response Method	1. Comprehend the basic concepts of surveying. 2. Relate prismatic compass and dumpy level as survey equipment.	Continuous Internal Assessment  Formative Assessment



4. GEO-G-CC-4-04-P- Cartography Unit IV	10hrs	Preparation of annotated thematic overlays from satellite standard FCCs of 1:50k	Laboratory Method	1.Relate thematic overlays with landuse map preparation.	Continuous Internal Assessment Formative Assessment
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**LORETO COLLEGE**  
**TIME PLAN 2023-2024**

Name of the teacher: DEBASREE SINHA

Initials: D.S

Teaching Objective:

- Develop an understanding of economic growth and human development in the third world.
- Promote the appreciation of origin, characteristics and properties of soils as a natural body.

**4th Semester Topic-wise Time Plan**

<i>Topics</i>	<i>Hours allotted</i>	<i>Topics (as per curriculum)</i>	<i>Teaching method</i>	<i>Learning outcome (output)</i>	<i>Assessment</i>
<b>1. HONS – Paper GEO-A-CC-4-09-TH – (Theory) Regional Planning and Development, Unit II: Regional Development</b>	16	<b>5.</b> Concept of growth and development, growth versus development  <b>6.</b> Indicators of development: Economic, demographic, and environmental  <b>7.</b> Human development: Concept and measurement	1. Lecture  2. Discussion and debate	Students s will be able to:  1. Discern the difference between growth and development  2. Understand the various indicators and parameters of development  3. Appreciate the significance of human development	1. Written class assignment  2. Student presentation
<b>2. HONS – Paper GEO-A-CC-4-10-TH – (Theory) Soil and Biogeography, Unit I: Soil Geography</b>	30	<b>1.</b> Factors of soil formation  <b>2.</b> Definition and significance of soil properties: Texture, structure, and moisture  <b>3.</b> Definition and significance of soil properties: pH, organic matter, and NPK  <b>4.</b> Soil profile. Origin and profile characteristics of lateritic, podsol and chernozem soils  <b>5.</b> Soil erosion and degradation: Factors, processes and management measures. Humans	1. Lecture  2. Power point presentation	Students s will be able to:  1. Develop a sound understanding of the chemical properties of soil.  2. Differentiate between origin and profile characteristics of different soil types  3. Classify world soils using various universally accepted criteria	1. Written class assignment  2. Student presentation

		<p>as active agents of soil transformation</p> <p><b>6. Principles of soil classification: Genetic and USDA. Concept of land capability and its classification</b></p>			
<p><b>3. HONS – Paper GEO-A-CC-4-10-P – (Practical) Soil and Biogeography</b></p>	30	<p><b>1. Determination of soil reaction (pH) and salinity using field kit</b></p> <p><b>2. Determination of soil type by ternary diagram textural plotting</b></p>	<p>1. Demonstration</p>	<p>Students s will be able to:</p> <p>1. Identify soil texture and type</p> <p>2. Determine pH and salinity of soil</p>	<p>1. Utilization of soil field kit in class</p>
<p><b>4. GEN – Paper GEO-G-CC-4-04-TH – (Theory) Cartography,</b></p> <p><b>Unit II: Topographic and Thematic Maps,</b></p> <p><b>Unit III: Remote Sensing and Geographical Information System,</b></p> <p><b>Unit IV: Surveying</b></p>	5	<p>1. Maps: Classification and types. Scales: Types, significance, and applications</p> <p>3. Map projections: Classification, properties and uses. Concept and significance of UTM projection</p>	<p>1. Lecture</p> <p>2. Power point presentation</p>	<p>Students s will be able to:</p> <p>1. Develop an understanding of the significance of maps and scales in Geography.</p> <p>2. Comprehend the use of map projections in the preparation of maps.</p>	<p>1. Written test</p>

**LORETO COLLEGE**  
**FOURTH SEMESTER GEOGRAPHY HONOURS TIME PLAN**  
**MARCH 2024 – JULY 2024**

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

**Teaching Objective:**

- to be able to identify the different economic processes and the resultant patterns of location and development
- to introduce the students to the theories of development
- to help understand the ways of measuring inequalities, disparities, concentrations of geographical attributes across space and time

<i>Topics</i>	<i>Hours allotted</i>	<i>Topics (as per curriculum)</i>	<i>Teaching method</i>	<i>Learning outcome (output)</i>	<i>Assessment</i>
1. CC- 08 TH Unit -I Concepts  Unit - II Economic activities	4  22	1. Meaning and approaches 2. Concepts in economic geography 3. Concept of economic man, theories of choice 4. Economic distance and transport costs 9. Tertiary activities: transport, trade and service 10. Transnational sea routes. 11. International trade and economic blocs 12. WTO and BRICS: evolution, structure and functions	<ul style="list-style-type: none"> <li>● Lecture method</li> <li>● Discussion method</li> <li>● Enquiry method</li> <li>● Use of PPT and videos</li> </ul>	<ul style="list-style-type: none"> <li>● Students acquire knowledge about the structures and the economic processes operating in the present global economy</li> </ul>	<ul style="list-style-type: none"> <li>● Class tests</li> <li>● MCQ / Objective worksheets</li> <li>● Puzzles, quiz</li> <li>● Home assignments</li> <li>● Exams</li> </ul>
2 CC-08- PR  Economic Geography Lab	20	3. Time series: industrial production (India and WB) 4. Transport network analysis – Detour, Shortest path	<ul style="list-style-type: none"> <li>● Lecture method</li> <li>● Demonstration Method</li> <li>● Problem solving method</li> </ul>	<ul style="list-style-type: none"> <li>● Students will learn the use of statistical tools to show production data</li> </ul>	<ul style="list-style-type: none"> <li>● Class tests</li> <li>● MCQ / Objective worksheets</li> <li>● Home assignments</li> <li>● Quiz</li> <li>● Exams</li> </ul>
3. CC- 09 TH Unit II Regional Planning and Development	20	8. Theories and models of regional development: Myrdal 9. Rostow and Perroux	<ul style="list-style-type: none"> <li>● Lecture method</li> <li>● Problem</li> </ul>	<ul style="list-style-type: none"> <li>● Gain an understanding of development</li> </ul>	<ul style="list-style-type: none"> <li>● Class tests</li> <li>● Home</li> </ul>

		<b>12.Balanced development</b>	<b>solving method</b>	<b>models</b>	<b>assignments</b> • Exams
<b>4. CC- 09- PR</b> <b>Regional Planning and Development</b>	<b>15</b>	<ol style="list-style-type: none"> <li><b>1. Delineation of formal regions – weighted index</b></li> <li><b>2. Delineation of functional regions-breaking point theory</b></li> </ol>	<ul style="list-style-type: none"> <li>• <b>Problem solving method</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Learn ways of measuring inequality, dispersion of economic activities</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Class tests</b></li> <li>• <b>Home assignments</b></li> <li>• <b>Exams</b></li> </ul>