

LORETO COLLEGE
SEMESTER TWO GEOGRAPHY IDC
TIME PLAN 2025

Name of the teacher: DEBASREE SINHA

Initials: D.S

Teaching Objective:

- Inculcate in students the value of RS and GIS in the discipline of Geography.

2nd 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>
4. IDC – GEO-H-IDC01-Th – (Theory) Geomatics and Spatial Analysis	16	<p>5. Principles of remote sensing (RS). Types of RS satellites and sensors with reference to IRS and Landsat missions.</p> <p>6. Principles of • preparing standard false colour composites (FCCs) and • supervised image classification.</p> <p>7. GIS data types: Spatial and non-spatial (attribute table and metadata), raster and vector</p> <p>8. Principles of preparing attribute tables, data manipulation, query, and overlay</p>	<p>1. Lecture</p> <p>2. Power point presentation</p>	<p>Students will be able to:</p> <p>1. Perceive the significance of RS in the advancement of present-day geographical knowledge and research.</p> <p>2. Comprehend the functions of sensors and the types of satellites.</p> <p>3. Understand the importance of the role of GIS as a tool of mapping and spatial information.</p>	<p>1. Written test</p>

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SEMESTER TWO GEOGRAPHY IDC
TIME PLAN 2025

Name of the teacher: Shamayita Roy

Initials: S.R

Teaching Objective:

- to be able to read different kinds of map for a better understanding of the environment
- to introduce the students to the compilation , designing and reproduction of maps as communication tools
- to acquire integrated knowledge in the field of geodesy and possess skills to transfer geographic coordinate system grid from a spherical surface to a flat surface.

2nd Semester IDC 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>
IDC -TH	4	3. Concept of Geoid and spheroid	1. Lecture method	Students s will be able to:	1. Class tests
Unit -I		4. Map projections: Simple conical and UTM	2. Discussion method	1. Integrate conceptual understanding of maps with porocedural knowledge of map making	2. MCQ / Objective worksheets
Cartography			3. Problem solving method	2. To convert information from one representational form to another	3. Puzzles, quiz
			4. Use of PPT and videos	3. To detect temporal changes of river channels using satellite imageries	4. Home assignments
Unit -II	4	6. Global Navigation Satellite and total station System			5. Exams
Surveying					
Practicals					
Geomatics and Spatial Analysis		4. Change detection of riverbank or coastline shift from multi-dated maps and images			

Topics	Hours allotted	Topics (as per curriculum)	Teaching method	Learning outcome (output)	Assessment
4. IDC – GEO-H- IDC01-Th – (Theory) Geomatics and Spatial Analysis Unit –II Surveying	3	Bearing Concept of Geoid & Spheroid	Lecture	Comprehension of the categories of bearing and an understanding of the basic concepts of the practical geography.	Q&A
Unit -II Surveying	8	4. Basic concepts of surveying, survey equipment and their uses: dumpy level theodolite	Lecture and practice of plotting from given data	Learn the basic usefulness of survey in Geography	Practical sums to be calculated and plotted