

LORETO COLLEGE
SEMESTER TWO GEOGRAPHY IDC
TIME PLAN 2024

Name of the teacher: Sabiha Sethwala

Initials: S.S

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

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Name of the teacher: Sharmila Ray Kumam

Initials: SRK

Teaching Objective:

- Develop the capability to understand the basic principles of certain aspects of practical geography.

Semester 2 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 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	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

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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>
5. IDC – GEO-H-IDC01-P – (Practical) Geomatics and Spatial Analysis	8	<p>3. Identification of land use/land cover features from standard FCCs and preparation of Inventories.</p>	<p>1. Demonstration</p>	<p>Students will be able to:</p> <p>1. Visually identify LULC features from standard FCCs.</p> <p>2. Manually and visually interpret standard FCCs.</p>	<p>1. Written test</p> <p>2. Viva voce</p>