LORETO COLLEGE
SEMESTER FIVE GEOGRAPHY HONOURS
TIME PLAN 2022

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

Teaching Objective:

- To help students understand GIS Data Structures
- Analyse the principles of preparing attribute tables
- Assess and evaluate the principles of buffer and overlay analysis
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

Semester Five Geography Honours Topic-wise Time Plan

COURSE: 2.23 GEO-A-CC-5 -12 -TH – Remote Sensing, GIS and GNSS
Unit II: Geographical Information Systems and Global Navigation Satellite System

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
7.	5	1. GIS data structures: types: spatial and non-spatial, raster and vector	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the various data structures • Differentiate between Raster and Vector	• Tutorials • Home assignments
8.	6	2.Principles of preparing attribute tables and data manipulation and overlay analysis	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Comprehend the technique of constructing attribute tables • Understand the significance of manipulation and overlay analysis	• Google Forms • Quiz
9.	4	3. Principles and significance of buffer preparation	• Lecture method	• Differentiate between buffer and overlay	• Poster Designing

			• Stimulus Response Method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the principles of buffer preparation	• Home assignments
10.	5	4.Principles and significance of overlay analysis	• Lecture method • Stimulus Response Method • Discussion/ Interactive method • Visual aids	• Understand the mechanism of overlay • Comprehend and analyse the difference between buffer and overlay	• Crossword • Google Forms • Model Question Bank - Viva

LORETO COLLEGE
SEMESTER FIVE GEOGRAPHY HONOURS
TIME PLAN 2022

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

Teaching Objective:

- To impart comprehensive knowledge of rural and urban settlements
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

Semester Five Geography Honours Topic-wise Time Plan

COURSE: 3.10 GEO-A-DSE-B-6-05-TH – CULTURAL AND SETTLEMENT GEOGRAPHY LAB

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
Unit II: Settlement Geography	3	7.Rural Settlement: Definition, nature & characteristics	• Lecture method • Discussion/ Interactive method	• Understand the concept of rural settlements	• Tutorials
2	5	8.Morphology of rural settlements: site & situation, layout – internal & external	• Lecture method • Discussion method	• Comprehend the meaning of morphology	• Tutorials • Home assignments
3	7	9. Rural house types, Social segregation in rural areas: Census categories of rural settlements	• Lecture method • Discussion/ Interactive method	• Understand various rural house types and Census categories	• Paper presentation
4	3	10. Urban Settlements: Census definition (Temporal) & categories in India	• Lecture method • Discussion method	• Understand Census categories	• Tutorials • Home assignments
5	7	11. Urban morphology: Models of Burgess, Hoyt, Harris & Ullman	• Discussion/ Interactive method	• Comprehend the meaning of morphology	• Google Forms • Quiz
6	5	12. City-region & conurbation. Functional classification of cities: Schemes of Harris, Nelson & McKenzie	• Discussion/ Interactive method	• Understand the functional classification of cities	• Tutorials

LORETO COLLEGE
SEMESTER FIVE GEOGRAPHY HONOURS
TIME PLAN 2022

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

Teaching Objective:

- To impart comprehensive knowledge of the cartographic techniques to enable language mapping
- To enable students to imbibe the skill to represent housing distribution data
- To prepare students for higher education
- To provide guidance beyond prescribed syllabus

Semester Five Geography Honours Topic-wise Time Plan

COURSE: 3.10 GEO-A-DSE-B-6-05-P – CULTURAL AND SETTLEMENT GEOGRAPHY LAB (PRACTICAL)

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1	10	1. Mapping language distribution in India	• Lecture method • Discussion/ Interactive method	• Developed skills to plot the cartogram • Acquired the knowledge of selecting the appropriate cartogram based on the data provided	• Tutorials - Solve past question papers • Viva Voce
2	20	2. CD block – wise housing distribution in any district of West Bengal using proportional squares	• Lecture method • Discussion/ Interactive method	• Developed skills to plot the cartogram • Acquired the knowledge of selecting the appropriate scale based on the data provided	• Tutorials- Solve past question papers • Home assignments • Viva Voce

LORETO COLLEGE
SEMESTER FIVE GEOGRAPHY GENERAL
TIME PLAN 2022

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

Teaching Objective:

- To impart comprehensive knowledge of the various cartographic techniques
- To develop the skill of using cartograms
- To provide guidance beyond prescribed syllabus

5th Semester Geography General Topic-wise Time Plan
COURSE: 6.4 GEO-G-DSE-A-5-02-P–GEOGRAPHY OF TOURISM LAB (PRACTICAL)

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1.	15	1. Tourist flow analysis	• Lecture method • Discussion/ Interactive method	• Developed skill to plot the cartogram • Acquired the knowledge of selecting the appropriate scale based on the data provided	• Solve past University question papers - Tutorial • Home assignments • Viva Voce
2.	15	2. Tourist flow projection from time – series data	• Lecture method • Discussion/ Interactive method	• Developed skill to plot time series (three methods) • Gain knowledge of the nature, importance, and application of Time series • Acquire the skill to plot and analyse the same	• Tutorial • Home assignments • Viva Voce
3.	15	3. Isochronic map showing tourist resource & travel time	• Interactive method	• Acquire the skill to plot and analyse the same	•
4.	15	4. Environmental Impact Assessment of tourism development: Preparation of questionnaire	• Discussion/ Interactive method	• Understand the significance of EIA & frame the same	•

LORETO COLLEGE
SEMESTER FIVE GEOGRAPHY HONOURS
TIME PLAN 2022

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

Teaching Objective:

- To help students to design data collection plans, analyse data, interpret, and draw conclusions
- To train students and help develop skills in research methodologies and to help students to identify the process of designing a research study
- To train students to identify a research problem
- To help students understand the natural fluvial processes and the resultant landforms
- To train students with the logistics involved in Field Trips and its importance in the discipline.

Semester V Topic-wise Time Plan

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1. CC 11 TH 2.21 **Research Methodology and Fieldwork**	20	UNIT I: Research Methodology 1. Techniques of writing a report 2. Plagiarism UNIT II: Fieldwork 1.Field Techniques and tools 2. Positioning and collection of samples	• Lecture method • Project method • Problem solving method	• Able to familiarize with the research process • Able to design questionnaires and interview methods for field trips. • Able to recognize common types of sampling design	• Class tests • Objective worksheets • Home assignments Exams • Research project assigned group wise
2. DSE A 1 TH 3.1 **Fluvial Geomorphology**	20	1. Fluvial processes of entrainment 2. Large rivers of the Tropics 3. fluvial landforms	• Lecture method • Class discussion method	• To be able to identify the relationships for a bivariate data	• Class tests • MCQ /Objective • Worksheets • Home assignments • Exams
3 DSE A 1 PR 3.2 **Fluvial Geomorphology.**	15	1.Computation of channel pattern 2. Riverbank erosion 3. Analysis of pebbles: shape indices 4.Flood frequency graphs	• Lecture method • Class discussion method • Project method	• To be able to draw longitudinal profiles of rivers from toposheet • Calculate flood frequency years and plan mitigation programs • A to identify the different shapes of the pebbles	• Class tests • Project- case study • Home assignments • Exams

LORETO COLLEGE
SEMESTER FIVE GEOGRAPHY GENERAL TIME PLAN
2022

Name of the teacher: Mrs Sabiha Sethwala
Initials: SS

Teaching Objectives:

- To help students to design budgets for different kinds of tourism.
- To help students understand trends of tourism

Semester V Topic-wise Time Plan

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
DSE-A-2 **GEOGRAPHY OF TOURISM**	20	6. Environmental laws and tourism 8. Trends of tourism 9.Tourism in India 10.Promotion of tourism	• Lecture method • Class discussion method • Project method • Use of PPTs	• Students develop skills to identify, manage and design strategies for promoting tourism	• Class tests • Project- case study • Home assignments • Exams

LORETO COLLEGE
GEOGRAPHY TIME PLAN 2022

Name of the teacher: Kaustuva Banerjee
Initials: KB

Teaching Objective:

- Comprehend the use of Remote Sensing and GIS in Geography
- Assess the importance of Sensor resolutions and their applications with reference to IRS and Landsat missions
- Evaluate the importance of technology in interpretation of geographic phenomena
- Differentiate between CartoDEM and SRTM.

Semester V Honours Topic-wise Time Plan

Topics	***Hours allotted***	***Topics (as per curriculum)***	***Teaching method***	***Learning outcome (output)***	***Assessment***
GEO-A-CC-5-12-TH – Remote Sensing, GIS and GNSS	30	1.Principles of Remote Sensing (RS): Types of RS satellites and sensors 2.Sensor resolutions and their applications with reference to IRS and Landsat missions 3.Image referencing schemes and acquisition procedure of free geospatial data from NRSC / Bhuvan and USGS 4. Preparation of False Colour Composites from IRS LISS-3 and Landsat TM / OLI data. 5. Principles of image interpretation. Preparation of inventories of landuse land cover(LULC) features from satellite images 6.Acquisition and utilisation of free Digital Elevation Model data: CartoDEM, SRTM and ALOS	Demonstration Method Lecture Method Stimulus Response Method	1.Comprehend the importance of sensor resolution 2.Analyze the different Image referencing schemes 3. Evaluate the principles of image interpretation. 4. Understand the principles of image interpretation	Continuous Internal Assessment Summative Assessment

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
GEO-A-CC-5-12-P – Remote Sensing, GIS and GNSS Lab	50	1. Image georeferencing and enhancement. Preparation of reflectance libraries of LULC features across different image bands of IRS L3 or Landsat OLI data 2. Supervised image classification, class editing, and post-classification analysis 3. Digitisation of features and administrative boundaries. Data attachment, overlay, and preparation of annotated thematic maps	Lecture Method Demonstration Method Laboratory Method	1.Differentiate between IRS L3 and Landsat OLI data imageries 2. Use QGIS to prepare LULC maps.	Continuous Internal Assessment Summative Assessment

LORETO COLLEGE
TIME PLAN 2022

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

Teaching Objective:

- Facilitate the application of geographical knowledge to real world scenarios
- Develop an interest in pursuing geographical research, making use of RS GIS techniques
- Enable the understanding of human-environment interactions
- Promote the appreciation of running water as the most potent geomorphic agent

5th Semester Topic-wise Time Plan

Topics	*Hours allotted*	*Topics (as per curriculum)*	*Teaching method*	*Learning outcome (output)*	*Assessment*
1. HONS – Paper GEO-A-CC-5-11-TH – (Theory) Research Methodology and Fieldwork, Unit I: Research Methodology Unit II: Fieldwork	25	1. Research in Geography: Meaning, types and significance 7. Fieldwork in Geographical studies: Role and significance. Selection of study area and objectives. Pre-field academic preparations. Ethics of fieldwork 8. Field techniques and tools: Observation (participant, non-participant), questionnaires (open, closed, structured, non-structured). Interview 11. Post-field tabulation, processing and analysis of	1. Lecture 2. Power point presentation	Students will be able to: 1. Identify existing research types in Geography 2. Comprehend the significance of fieldwork in geographical research 3. Choose relevant field techniques and tools at the time of research. 4. Analyse and properly represent data collected during field	1. Written class test

		quantitative and qualitative data			
2. HONS – GEO-A-CC-5-12-TH – (Theory) Remote Sensing, GIS and GNSS, Unit III: Global Navigation Satellite System (GNSS)	10	11. Principles of GNSS positioning and waypoint collection 12. Principles of transferring of GNSS waypoints to GIS. Area and length calculations from GNSS data	1. Lecture 2. Power point presentation	Students will be able to: 1. Have knowledge of current GNSS in operation. 2. Transfer GNSS waypoints to GIS and perform area and length calculations	1. Written class test
3. HONS – GEO-A-CC-5-12-P – (Practical) Remote Sensing, GIS and GNSS	15	4. Waypoint collection from GNSS receivers and exporting to GIS database	1. Demonstration of use of GPS and relevant software	Students will be able to: 1. Use GPS in retrieving location of ground points and transform them onto software. 2. Use collected data for mapping and other purposes	1. Handling of GPS and doing relevant tasks on the software
4. HONS – Paper GEO-A-DSE-A-5-01-TH – (Theory) Fluvial Geomorphology	20	1. Scope and components of Fluvial Geomorphology. Rivers as hydro-systems. Geographers' approach to study of rivers 3. Models of channel initiation and network development 5. Fundamentals of Rosgen stream classification system 10. Human	1. Lecture 2. Power point presentation	Students will be able to: 1. Grasp the importance of fluvial processes 2. Develop an understanding of river systems and their response to changes 3. Appreciate the processes through which river channels evolve on the Earth's surface	1. Class written test

		intervention on fluvial systems: Types and consequences			
3. GEN – Paper GEO-G-DSE-A-5-02-TH – (Theory) Geography of Tourism	15	1. Scope and Nature: Concepts and issues, tourism, recreation and leisure inter-relations; geographical parameters of tourism by Robinson 2. Types of Tourism: Ecotourism, cultural tourism, adventure tourism, medical tourism, pilgrimage, international, national 11. Infrastructure and support system: Accommodation and supplementary accommodation, other facilities and amenities 12. Tourism circuits-short and longer detraction: Agencies and intermediaries, Indian hotel industry	1. Lecture 2. Power point presentation	Students will be able to: 1. Appreciate the importance of tourism in a developing economy 2. Comprehend the interrelationship among tourism, recreation and leisure 3. Develop a perception on the Indian tourism scenario in terms of circuits, infrastructure and hospitality sector	1. Class written test

LORETO COLLEGE
SEMESTER FIVE HONOURS
TIME PLAN 2022

Name of the teacher: Sharmila Ray Kumam
Initials: SRK

Teaching Objective:

- To develop a deep understanding of the basic and fundamental principles of research starting from the preliminary stage of conducting research in the field of geography. It will provide a step-by step guide to each phase of research in order to assist students to ultimately conduct their individual research work in a more meaningful manner.

- To generate a deeper meaning in the cultural diversity that exists in the world today and stimulate a respect and appreciation for this multicultural world today in the student so that they are more sensitive to differences and diversity.

Topics	Hours Allotted	Topics (as per curriculum)	Teaching Method	Learning Outcomes	Assessment
GEO-A-CC-5-11-TH Unit1 Research Methodology 2	2	Literature Review	Lecture /Handout	Understand the need for literature review	Discussion, Oral Q&A
3	4	Research Problem	Lecture /Handout	Gain expertise on formulating the research question(s)	Discussions, Q&A
3	4	Research Objectives	Lecture & Presentation/Handout	Help in the identification of the goals and purpose of the research	Discussion Subjective Q&A
3	4	Research Hypothesis	Lecture & Presentation/Handout	Understanding the need for formulating the hypotheses	Discussions, Q&A
2/6	6	Research Design / Research Method	Lecture & Presentation/Handout	Know the need for different design & methods	Individual student presentation
4	2	Research Materials	Lecture participatory discussion	Have the knowledge of available research material to be used	Q&A

GEO-A-DSE-B-6-05-TH Cultural Geography Unit1 1	5	Definition scope content of cultural Geography	Lecture/Handout	Develop an understanding of meaning, scope, and content	Q&A Exchange of concrete examples
2	5	Cultural Geography & other allied disciplines	Lecture /Handout	Understanding inter-disciplinary nature of Cultural geography	Subjective question and tutorial
3/6	6	Cultural hearth, Realm, Cultural Regions of India	Lecture/Handout	Understanding the concepts and their manifestations over space	Discussions Maps PPT
3	6	Diffusion, & of major world religions and languages	Lecture/Handout	Comprehending the core principles of diffusion and their manifestations	Q&AStudent Presentations
4	5	Cultural Segregation and Diversity: culture, technology& development	Lecture/Segregation	Impact of development, technology, culture on diversity& segregation	Q&A Student Presentation
5	5	Races & Racial Groups of the World	Lecture /Handout /PPT	Imbibing the existence of wide racial diversity and economic diversity globally	Q&A
Cultural Settlement Geography Lab 3	4	Identification of rural settlement types from toposheet	Practical reading and identification in the toposheet	Correlating the map representation to the real field identification	Map reading and identification of the rural settlement types.