Teaching Plan

Department of Geography

Session: 2022-23

Even Semester

TermI:Fromcommencement ofclassto1st InternalAssessment

Term II: 1st Internal Assessment to 2nd Internal Assessment

TermIII:2ndInternal AssessmenttoEndSemester Exam

TeachingPlan: 2022-23
(Even Semester)
Sharmistha Manna
Dept. of Geography

Semester-II		
No of Classes (Hour) allotted per week: 02		
Syllabus allotted for theory classes	**C3T: Human Geography** 1.Human adaptation to environment: Eskimo, Masai, Jarwa, Gaddi, Santhals. 2.Human population and environment with special reference to development-environment conflict. **C4T: Cartograms and Thematic Mapping** 1.Representation of point data: Isopleths.	
Total Lecture	**Term I**	**Paper**
08	Human adaptation to environment: Eskimo, Masai, Jarwa, Gaddi, Santhals.	**C3T**
02	Representation of point data: Isopleths.	**C4T**
	Term II	
02	Human population and environment with special reference to development-environment conflict	**C3T**
	Term III	
02	**End - Semester questions discussion on selective topic of C3T & discussion about writing techniques**	**C3T**
02	**End - Semester questions discussion on selective topic of C4T & discussion about writing techniques**	**C4T**

Syllabus allotted for practical classes	**C4P: Cartography (Lab)** Thematic maps: Choropleth, isoline map, chorochromatic map.
Total Lecture	Thematic maps: Choropleth, isoline map, chorochromatic map.
08	

Semester-IV		
No of Classes (Hour) allotted per week: 04 ***Each Lecture carried 01 Hour***		
Syllabus allotted for theory classes	**C8T: Regional Planning and Development** 1. Tools and techniques of regional planning, need for regional planning in India. 2. Concept and strategies of regional development with reference to India. **C9T: Economic Geography** 1. Primary activities: Subsistence and commercial agriculture, forestry, fishing and mining. 2. International agreements and trade blocs: GATT and OPEC. **C10T: Environmental Geography** 1. Perception of environment in different stages of civilization. 2. Environmental pollution and degradation: Land, water and air. **SEC2T: Research Methods** 1. Data Analysis: Qualitative and Quantitative Analysis; Techniques Data Representation.	
Total Lecture	**Term I**	
04	Tools and techniques of regional planning, need for regional planning in India.	**C8T**
08	Primary activities: Subsistence and commercial agriculture, forestry, fishing and mining.	**C9T**
02	Perception of environment in different stages of civilization.	**C10T**
06	Data Analysis: Qualitative and Quantitative Analysis; Techniques Data Representation	**SEC2T**
	Term II	
02	Concept and strategies of regional development with reference to India.	**C8T**
03	International agreements and trade blocs: GATT and OPEC	**C9T**
08	Environmental pollution and degradation: Land, water and air.	**C10T**
	Term III	
02	Revision class over C8T and doubt clearance	**C8T**
02	Doubt clearance on C9T and revision of selective topic	**C9T**
02	Revision class over C10T, SEC2T and doubt clearance	**C10T, SEC2T**
02	**End - Semester questions discussion on selective topic of C8T, C9T, C10T, SEC2T & discussion about writing techniques**	
04	**C10P Environment Geography** Preparation of questionnaire for perception survey on environmental problems	

Semester-VI

No of Classes (Hour) allotted per week: 05
*****Each Lecture carried 01 Hour*****

Syllabus allotted for theory classes

C13T: Evolution of Geographical Thought

1. Development of Geography and contributions of Greek, Chinese, and Indian geographers.
2. Impact of 'Dark Age' on Geography and Arab contributions.
3. Contributions of Humboldt and Ritter.

C14TDisaster Management

1.Earthquake: Factors, vulnerability, consequences and management

DSE 3T: Soil and Biogeography

1. Soil profile. Origin and profile characteristics of Lateritic, Podzol and Chernozem soils.
2. Soil erosion and degradation: Factors, processes and mitigation measures.
3. Geographical extent and characteristic features of: Tropical rain forest.

DSE 4T: Urban Geography

1.Urban Geography: nature and scope, different approaches and recent trends in urban geography.
2. Patterns of urbanisation in developed and developing countries.

Total Lecture	Term I	Paper
08	Development of Geography and contributions of Greek, Chinese, and Indian geographers.	**C13T**
02	Impact of 'Dark Age' on Geography and Arab contributions	
03	Earthquake: Factors, vulnerability, consequences and management	**C14T**
06	Soil profile. Origin and profile characteristics of Lateritic, Podzol and Chernozem soils.	**DSE 3T**
03	Urban Geography: nature and scope, different approaches and recent trends in urban geography.	**DSE 4T**
	Term II	
03	Contributions of Humboldt and Ritter.	**C13T**
05	Soil erosion and degradation: Factors, processes and mitigation measures.	**C14T**
02	Geographical extent and characteristic features of: Tropical rain forest.	**DSE 3T**
02	. Patterns of urbanisation in developed and developing countries.	**DSE 4T**
	TermIII	
02	Class test on selective topic.	**C13T,C14T, DSE3T & DSE4T**
02	Doubt clearance on selective topics and revision	
02	**End - Semester questions discussion on selective topic of C13T, C14T & discussion about writing techniques**	**C13T,C14T**
02	**End - Semester questions discussion on selective topic of DSE3T, DSE4T & discussion about writing techniques**	**DSE3T & DSE4T**

Teaching Plan

Department of Geography

Session: 2022-23

Even Semester

Term I: From commencement of class to 1st Internal Assessment

Term II: 1st Internal Assessment to 2nd Internal Assessment

Term III: 2nd Internal Assessment to End Semester Exam

Teaching Plan: 2022-23(Even Semester)
Dinabandhu Patra
Dept. of Geography

Semester-II		
No of Classes (Hour) allotted per week: 03 *****Each lecture carried 01 Hour*****		
Syllabus allotted for theory classes	**C3T: Human Geography** 1. Nature and scope and recent trends. Elements of Human Geography 2. Approaches to the study of Human Geography; Resource, Locational, Landscape, Environmental **C4T: Cartograms and Thematic Mapping** 1. Preparation and interpretation of large-scale thematic maps: Geomorphological maps 2. Preparation and interpretation of large-scale thematic maps: Climatological maps	
Lecture No.	**Term I**	**Paper**
01	Brief idea and different terminology related to Human Geography and its importance in both academic and real-life situation	**C3T**
02	General idea about Nature of human Geography	
03	Discuss about Scope, different field, and sub field of Human Geography	
04	Concept about different elements of human Geography and discussion about their interrelationship	
05	Discussion on worldwide new trends of progress of Human Geography	
06	Class test on all previous topics of discussion of Human Geography	
07	Discuss about the basic concept of Map and Thematic map, purpose of Drawing and importance	**C4T**
08	Different types and drawing technique of Thematic map with ICT visualization	
09	Theoretical discussion on preparation and interpretation of Geomorphological map	
10	Practically preparation of Geomorphological map	
11	Class test on Geomorphological map	
Term II		
12	Discuss about the basic approaches to the study of Human Geography	**C3T**
13	Giving an idea about Human perception about resources, population pressure and resource management and sustainability	
14	Initiate to different optimistic and pessimistic view of Human-resource (environment) conflict (e.g., view of Paul Ehrlich, Julian Simon and so on)	
15	Theoretical discussion of human spatial behavior, Spatial components	
16	Discuss about landscape, cultural landscape and human role in present context; ICT visualization of different landscapes	
17	Discussion about the different elements of climatic map	**C4T**
18	Preparation and interpretation of Climatic map	
19	Class test on Human Geography approaches and Climatic map	**C3T & C4T**
Term III		
20	Interrelationship between man and environment, discuss about Determinism	**C3T**
21	Discuss about Possibilism and Neo-determinism	
22	Doubt clearance on selective topics	
23	End - Semester questions discussion on selective topic of C3T & discussion	

	about writing techniques	
24	End - Semester questions discussion on selective topic of C4T & discussion about writing techniques	**C4T**
25	Class test on selective topics to prepare final exam	**C3T & C4T**
Syllabus allotted for practical classes	**C4P: Cartography (Lab)** Levelling by Dumpy Level	
Lecture No.	**Term I**	**Paper**
01	Basic discussion about the concept of levelling	**C4P**
02	Detail discussion about the different terminology related to dumpy level survey	
03	Doubt clearance of different terminologies that discussed in previous class	
	Practically demonstrate the Dumpy level instrument and discussion about it's all parts and their function	
04	Practically demonstrate of leveling-staff reading procedure and instrument levelling after proper placement of Dumpy Level instrument on tripod stand	
05	Pre-field discussion about field book preparation and station marking; discussion about all sources of error in whole data collection method	
06	Collection of data from field and instant solution of all doubt or confusion	
07	Properly collection of data from field	
Term II		
08	Tabulation and calculation for Collimation method	**C4P**
09	Tabulation and calculation for Rise-Fall method	
10	Doubt clear of different problem facing in the time of calculation	
11	Drawing of Longitudinal profile	
12	Determination of gradient between two stations of longitudinal profile	
13	Doubt clear of different problem facing in the time of profile drawing	
Term III		
14	Practice of data collection from field	**C4P**
15	Practice of data collection from field	
16	Tabulation and calculation	
17	Drawing of Longitudinal profile	
18	End - Semester questions discussion on Dumpy Level surveying	

Semester-IV		
No of Classes (Hour) allotted per week: 03 ***Each lecture carried 01 Hour***		
Syllabus allotted for theory classes	**C8T: Regional Planning and development** 1.Metropolitan concept: metropolitan areas, and urban agglomerations 2. Regional development in India, regional inequality, disparity and diversity 3. Need and measures for balanced development in India **C9T: Economic Geography** 1. Economic distance and transport costs 2. Transnational sea-routes, railways, and highways with reference to India **C10T: Environmental Geography** 1. Space–time hierarchy of environmental problems: Local, regional and global **SEC2T: Research Methods** 1.Geographic Enquiry: Definition and Ethics; Literature Review; Framing Research Questions, Objectives and Hypothesis; Preparing Sample Questionnaires and inventories	
Lecture No.	**Term I**	**Paper**
01	Providing the concepts of Metropolitan city, discussion about metropolitan city of India at present and past time	**C8T**
02	Discuss about the urban agglomerations, Characteristics, and factors of urban agglomeration in Indian Context	
03	Discussion on different types of distance, Basic concept of economic distance in transport geography (concept of Isotims, Isodapanes, Break of Bulk Point)	**C9T**
04	Concept of Space–time hierarchy related to environment issues	**C10T**
05	ICT visualization of environmental problems and information collection (e.g., environmental problem related documentary, any published report etc.)	
06	Local level environmental problems	
07	Introduction to Research, definition, types, importance	**SEC-2**
08	Introduce with research ethics, discuss about different types of unethical practices in every step of research process (from beginning to end)	
09	Discussion of Importance of ethical research and consequences of unethical research	
10	Concept of IRB, informed consent, plagiarism, also discussion of other terminology related to research ethics	
11	Doubt clearance on selected topics	**C8T & C9T**
12	Doubt clearance on selected topics	**C10T & SEC-2**
13	Class test on Regional Planning and development and Economic Geography	**C8T & C9T**
14	Class test on Environmental Geography and Research Methods	**C10T & SEC-2**
Term II		
15	Detail discussion about the concept of regional development, underlying controlling factors of regional development	**C8T**
16	Discussion about different indicators of regional development in India	
17	Focusing on the regional inequality, disparity and diversity both in macro and micro level in India	
18	Discussion about the regional inequality, disparity in different angles (e.g., types, govt. role & policy, challenges etc.)	
19	Discuss about the Causes of Regional Disparity	
20	Discussion about the regional diversity of India both physically and culturally in respect of development perspective	
21	Role of Transportation in Logistics	**C9T**
22	Cost Characteristics by mode in different zone	

23	Regional level environmental problems	**C10T**
24	Discussion Literature Review: purposes, importance, Sources	**SEC-2**
25	Literature review types, parameters, steps	
26	Framing Research Questions: steps, characteristics of standard questionnaire	
27	Preparing Sample Questionnaires on selected topics	
	Term III	
28	Need for balanced regional development in India	**C8T**
29	Measures for balanced regional development by Govt. policy, public awareness etc.	
30	Types of Transport Costs (e.g., Terminal cost, Linehaul cost etc.)	**C9T**
31	Global level environmental problems	**C10T**
32	Introduce with research Objectives, Characteristics, importance, formulation etc.	**SEC-2**
33	Discussion about hypothesis, types, how to write Hypothesis, example etc.	
34	Preparation of inventories	
35	End - Semester questions discussion on selective topic of C8T & C9T with discussion about writing techniques	**C8T & C9T**
36	End - Semester questions discussion on selective topic of C10T & SEC-2 with discussion about writing techniques	**C10T & SEC-2**
37	Class test on selective topics to prepare final exam	**C8T & C9T**
38	Class test on selective topics to prepare final exam	**C10T & SEC-2**
Syllabus allotted for practical classes	**C10P: Environmental Geography- Lab** 1.Interpretation of air quality using CPCB / WBPCB data	
Lecture No.	**Term I**	**Paper**
01	Basic discussion about the CPCB / WBPCB and introduce with AQI	**C10P**
02	ICT visualization of data source CPCB / WBPCB and other necessary issues	
03	Practically showing (through ICT tool) how to collect data from CPCB also collection of the bulletin and published reports	
	Term II	
04	Data arrangement and tabulation from collected data and bulletin and report	**C10P**
05	Analysis of data, showing of result, graphical presentation	
06	Interpretation of result	
07	Doubt clear of different problem facing in the time of calculation	
	Term III	
08	Practice of data collection and data arrangement	**C10P**
09	Practice of data analysis and interpretation	
10	End - Semester questions discussion on C10P paper	
	Semester-VI	
	No of Classes (Hour) allotted per week: 04 *****Each lecture carried 01 Hour*****	
Syllabus allotted for theory classes	**C13T: Evolution of Geographical Thought** 1. Evolution of Geographical thoughts in Germany, France, Britain and United States of America. 2. Evolution of Geography in India: formative periods, establishments and emerging trends **C14T: Disaster Management** 1. Classification of hazards and disasters. 2. Approaches to hazard study: Risk perception and vulnerability assessment. Hazard paradigms **DSE3T: Soil and Biogeography** 1. Definition and significance of soil properties: Texture, structure and moisture 2. Bio-geochemical cycles with special reference to carbon dioxide and nitrogen 3. Geographical extent and characteristic features of: Taiga biomes **DSE4T: Urban Geography** 1. Theories of Urban Evolution and Growth: Hydraulic Theory, Economic Theory	

	2. Policies on urbanization. Urban change/landscape in post-liberalized period in India	
Lecture No.	**Term I**	**Paper**
01	Definition of soil and significance of soil in nature	**DSE3T**
02	Discussion about soil Texture as an important soil property	**DSE3T**
03	Definition and significance of soil properties: structure	**DSE3T**
04	Evolution of Geographical thoughts in Germany	**C13T**
05	Basic discussion about urban evolution and change	**DSE4T**
06	Theories of Urban Evolution and Growth: Hydraulic Theory	**DSE4T**
07	Evolution of Geographical thoughts in Britain	**C13T**
08	Definition of hazards and disasters and brief discussion about it	**C14T**
09	Classification of hazards and disasters	**C14T**
10	Evolution of Geographical thoughts in France	**C13T**
11	Doubt clearance on selected topics	**C13T, C14T, DSE3T & DSE4T**
12	Class test on selective topic	**C13T & DSE3T**
13	Class test on selective topic	**C14T & DSE4T**
Lecture No.	**Term II**	**Paper**
14	Definition and significance of soil properties: moisture	**DSE3T**
15	Evolution of Geographical thoughts in United States of America	**C13T**
16	Bio-geochemical cycle: Carbon dioxide	**DSE3T**
17	Theories of Urban Evolution and Growth: Economic Theory	**DSE4T**
18	Different Policies on urbanization	**DSE4T**
19	Approaches to hazard study: Risk perception	**C14T**
20	Approaches to hazard study: vulnerability assessment	**C14T**
21	Doubt clearance on selected topics	**C13T, C14T, DSE3T & DSE4T**
22	Class test on selective topic	**C13T & DSE3T**
23	Class test on selective topic	**C14T & DSE4T**
Lecture No.	**Term III**	**Paper**
24	Bio-geochemical cycle: Nitrogen	**DSE3T**
25	Geographical extent and characteristic features of: Taiga biomes	**DSE3T**
26	Urban change/landscape in post-liberalized period in India	**DSE4T**
27	Hazard paradigms	**C14T**
28	Evolution of Geography in India: formative periods,	**C13T**
29	Establishments and emerging trends of Geographical thought in India	**C13T**
30	Doubt clearance on selected topics	**C13T, C14T, DSE3T & DSE4T**
31	End - Semester questions discussion on selective topic of C13T, C14T & Discussion about writing techniques	C13T & C14T
32	End - Semester questions discussion on selective topic of DSE3T, DSE4T & discussion about writing techniques	DSE3T & DSE4T
Syllabus allotted for practical classes	**C14P: Disaster Management based Project Work**	

Lecture No.	Term I	Paper
01	Pre field work	
02	Preparation of questionnaire	
03	Instruction for physical survey	**C14P**
04	Field work and data collection	
05	Data sorting and tabulation	
06	Data tabulation	
Lecture No.	**Term II**	**Paper**
07	Tabulation and calculation	
08	Graphical representation of field data	
09	Map making depends on field survey data	**C14P**
10	Map making based on GIS	
Lecture No.	**Term III**	**Paper**
11	Analysis and interpretation	
12	Analysis and interpretation	**C14P**
13	Instruction for field book arrangement	

Teaching Plan

Department of Geography

Session: 2022-23

Even Semester

Term I: From commencement of class to 1st Internal Assessment

Term II: 1st Internal Assessment to 2nd Internal Assessment

Term III: 2nd Internal Assessment to End Semester Exam

Teaching Plan: 2022-23 (Even Semester)

Mukul Maity
Dept. of Geography

Semester-II		
No of Classes (Hour) allotted per week: 04 *****Each Lecture carried 01 Hour*****		
Syllabus allotted for theory classes	**C3T: Human Geography** 1. Evolution of humans. Concept of race and ethnicity. 2. Evolution of human societies: Hunting and food gathering, pastoral nomadism, subsistence farming, industrial and urban societies. 3. Types and patterns of urban settlements. **C4T: Cartograms and Thematic Mapping** 1. Preparation and interpretation of large-scale thematic maps: Land use landcover maps. 2. Preparation and interpretation of large-scale thematic maps: Socio-economic maps.	
Lecture No.	**Term I**	**Paper**
01	Concept of Human Geography	**C3T**
02	General idea about Evolution of humans	
03	Detailed study about Evolution of humans	
04	Concept about urban settlement and discussion about its site and situation	
05	Types of urban settlements	
06	Pattern of urban settlement	
07	Visualization of different types of urban settlement by using ICT tool	
08	Class test on evolution of humans and urban settlements	
09	Discuss about the concept of map and thematic map	**C4T**
10	Theoretical discussion of Preparation and interpretation of Landuse – landcover map	
11	Practically Preparation of Landuse – landcover map	
12	Class test on Landuse – landcover map	
Term II		
13	Concept of race	**C3T**
14	Concept of ethnicity	
15	India and Worldwide distribution of race and ethnicity and its differentiation	
16	Visualization of different race and ethnic group by using ICT tool	
17	Discuss about different parameter of socio-economic maps	**C4T**
18	Preparation and interpretation of socio-economic maps	
19	Class test on race, ethnicity and socio-economic maps	**C3T & C4T**
Term III		
20	Concept about evolution of human societies	**C3T**
21	Discussion about hunting and food gathering	
22	Discussion about pastoral nomadism, subsistence farming	
23	Discussion about industrial and urban societies	
24	Class test on evolution of human societies	
25	Doubt clearance on selective topics	
26	End - Semester questions discussion on selective topic of C3T & discussion about writing techniques	
27	End - Semester questions discussion on selective topic of C4T & discussion about writing techniques	**C4T**
28	Class test on selective topics	**C3T & C4T**

Syllabus allotted for practical classes	**C4P: Cartography (Lab)** Levelling by Dumpy Level and Prismatic Compass.	
Lecture No.	**Term I**	**Paper**
01	Discuss about the concept of levelling	**C4P**
02	Introduce the Dumpy Level instrument and its function	
03	Introduce the Prismatic Compass instrument and its function	
04	Collection of data from field	
05	Collection of data from field	
	Term II	
06	Tabulation and calculation	**C4P**
07	Representation of Contour survey	
08	Doubt clear of different problem facing in the time of drawing	
	Term III	
09	Practice of data collection from field	**C4P**
10	Practice of data collection from field	
11	Tabulation and calculation	
12	Drawing of contour survey	
13	End - Semester questions discussion on contour survey	

Semester-IV

No of Classes (Hour) allotted per week: 03
*****Each Lecture carried 01 Hour*****

Syllabus allotted for theory classes	**C8T: Regional Planning and Development** 1. Theories and models for regional development: Growth pole model of Perroux; growth center model in Indian context 2. Changing concept of development, concept of underdevelopment; efficiency-equity debate 3. Indicators of development: Economic, social and environmental. Human development. **C9T: Economic Geography** 1. Meaning and approaches to Economic Geography, new Economic Geography 2. Concepts in Economic Geography: Goods and services, production, exchange and consumption **C10T: Environmental Geography** 1. Urban environmental issues with special reference to waste management **SEC2T: Research Methods** 1. Structure of a Research Report: Text; Citation, Notes	
Lecture No.	**Term I**	**Paper**
01	Concept Theories and models for regional development	**C8T**
02	Growth pole model of Perroux	
03	Growth pole model of Perroux and its implementation in present context	
04	Growth center model in Indian context	
05	Meaning and approaches to Economic Geography	**C9T**
06	Concept of new Economic Geography	
07	Structure of a Research Report	**SEC2T**
08	Details about text of research	
09	Concept of Citation and Notes	
10	Class test on selective topics	**C8T**, **C9T & SEC2T**

Term II		
11	Urban environmental issues	**C10T**
12	Details study about waste management	
13	Changing concept of development	**C8T**
14	Concept of underdevelopment & efficiency-equity debate	
15	Concepts in Economic Geography: Goods and services	**C9T**
16	Concepts in Economic Geography: production, exchange and consumption	
17	Class test on selective topic	**C10T, C9T & C8T**
Term III		
18	Indicators of development: Economic	**C8T**
19	Indicators of development: Social	
20	Indicators of development: Environmental	
21	Human development and present status of HDI in India	
22	Revision class over C8T and doubt clearance	
23	Doubt clearance on C9T and revision of selective topic	**C9T**
24	Revision class over C10T, SEC2T and doubt clearance	**C10T,SEC2T**
25	End - Semester questions discussion on selective topic of C8T, C9T, C10T, SEC2T & discussion about writing techniques	**C8T, C9T, C10T & SEC2T**
Syllabus allotted for practical classes	**C10P Environment Geography** 1. Quality assessment of soil using field kit: pH and NPK	
Lecture No.	**Term I**	**Paper**
01	Quality assessment of soil using soil kit: pH	**C10P**
02	Practice of soil pH testing	
03	Practice of soil pH testing	
04	Quality assessment of soil using field kit: N	
05	Practice of soil Nitrogen (N) testing	
Term II		
06	Quality assessment of soil using field kit: P	**C10P**
07	Practice of soil Phosphorus (P) testing	
08	Practice of soil Phosphorus (P) testing	
Term III		
09	Quality assessment of soil using field kit: K	**C10P**
10	Practice of soil Potassium (K) testing	
11	Practice of soil Potassium (K) testing	
12	End - Semester questions discussion on quality assessment of soil and a class test on selective topic	

Semester-VI		
No of Classes (Hour) allotted per week: 03 ***Each Lecture carried 01 Hour***		
Syllabus allotted for theory classes	**C13T: Evolution of Geographical Thought** 1. Trends of Geography in the post-World War-II period. 2. Towards Post Modernism: Changing concept of space in geography. Geography in the 21st Century **C14T Disaster Management** 1. Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building. 2. Hazards mapping: Data and techniques. **DSE 3T: Soil and Biogeography** 1. Definition and significance of soil properties: pH, organic matter and NPK 2. Concepts of biosphere, ecosystem, biome, ecotone, community and ecology 3. Geographical extent and characteristic features of: Grassland biomes **DSE 4T: Urban Geography** 1. Urban Hierarchies: Central Place Theory; August Losch's theory of Market Centers 2. Theories of city structure-concentric zone theory, sector theory, multiple nuclei theory	
Lecture No.	**Term I**	**Paper**
01	Urban Hierarchies: Central Place Theory	**DSE4T**
02	August Loch's theory of Market Centers	
03	Difference and present-day scenario of Christaller and Losch theory	
04	Definition and significance of soil properties: pH	**DSE3T**
05	Definition and significance of soil properties: Organic matter and Nitrogen	
06	Definition and significance of soil properties: Phosphorus (P), Potassium (K)	
07	Geographical extent and characteristic features of: Grassland biomes	
08	Trends of Geography in the post-World War-II period	**C13T**
09	Discuss about the contribution of different geographer after World War-II	
10	Responses to hazards: Preparedness, trauma and aftermath	**CC14T**
11	Resilience and capacity building	
12	Class test on selective topic	
Term II		
13	Hazards mapping: Data and techniques.	**C14T**
14	Discuss about represent of different hazard mapping	
15	Theories of city structure: Concentric zone theory, Sector theory	**DSE 4T**
16	Theories of city structure: multiple nuclei theory	
17	Towards Post Modernism: Changing concept of space in geography	**C13T**
18	Geography in the 21st Century	
19	Class test on selective topic	**DSE4T C13T & C14T**
Term III		
20	Concepts of biosphere, ecosystem	**DSE3T**
21	Concept of biome, ecotone	
22	Concept about community and ecology	
24	Class test on evolution of selective topic.	**C13T, C14T, DSE3T & DSE4T**
25	Doubt clearance on selective topics and revision	
26	End - Semester questions discussion on selective topic of C13T, C14T & discussion about writing techniques	
27	End - Semester questions discussion on selective topic of DSE3T, DSE4T & discussion about writing techniques	**DSE3T & DSE4T**

Syllabus allotted for practical classes	C14P: Disaster Management based Project Work	
Lecture No.	**Term I**	**Paper**
01	Pre field work	**C14P**
02	Preparation of questionnaire	
03	Field work and data collection	
04	Data tabulation	
05	Data tabulation	
	Term II	
06	Tabulation and calculation	**C14P**
07	Graphical representation of field data	
08	Map making depends on field survey data and GIS tools	
	Term III	
09	Analysis and interpretation	**C14P**
10	Analysis and interpretation	
11	Instruction for arrangement of field book and final discussion on project work	

Teaching Plan

Department of Geography

Session: 2022-23

Even Semester

Term I: From commencement of class to 1st Internal Assessment

Term II: 1st Internal Assessment to 2nd Internal Assessment

Term III: 2nd Internal Assessment to End Semester Exam

Teaching Plan: 2022-23 (Even Semester)

Teacher Name: Rimpa Mula

Dept. of Geography

Semester-II		
No of Classes (Hour) allotted per week: 02 *Each lecture carried 01 hour*		
Syllabus allotted for theory classes	**C3T: Human Geography** 1.Social morphology and rural house types in India. 2. Types and patterns of rural settlements **C4T: Cartograms and Thematic Mapping** 1. Diagrammatic representation of data: Line, Bar, and Circle. 2. Representation of area data: Dots, proportional circles and choropleth	
Lecture No.	**Term I**	**Paper**
01	Concept of Social morphology	**C3T**
02	Rural house types in India.	
03	Concept about rural settlement and discussion about its site and situation	
04	Pattern of rural settlement	
05	Class test on evolution of humans and rural settlements	
06	Discuss about the concept of diagrammatic representation of data	**C4T**
07	Theoretical discussion of Preparation and interpretation of line diagram	
08	Theoretical discussion of Preparation and interpretation of bar diagram	
09	Theoretical discussion of Preparation and interpretation of circle diagram	
Term II		
10	Types of rural settlement	**C3T**
11	Visualization of different types of rural settlement by using ICT tool	
12	Theoretical discussion of Preparation and interpretation of dot diagram	
13	Theoretical discussion of Preparation and interpretation of proportional circle diagram	
14	Class test on dot and proportional circle diagram	**C3T & C4T**
Term III		
15	End - Semester questions discussion on selective topic of C3T & discussion about writing techniques	**CT3**
16	Theoretical discussion of Preparation and interpretation of choropleth map	**C4T**
17	End - Semester questions discussion on selective topic of C4T & discussion about writing techniques	
18	Class test on selective topics	**C3T & C4T**

Syllabus allotted for practical classes	**C4P: Cartography (Lab)** 1.Thematic maps: Proportional squares, pie diagrams with proportional circles, dots and spheres	
Lecture No.	**Term I**	**Paper**
01	Discuss about the concept of Proportional squares	**C4P**
02	Drawing of Proportional squares	
03	Discuss and drawing of proportional circles	
04	Discuss and drawing of proportional circles with pie diagram	
	Term II	
05	Discuss and drawing of sphere diagram	**C4P**
06	Discuss and drawing of dot diagram	
07	Doubt clear of different problem facing in the time of drawing	
	Term III	
08	End - Semester questions discussion on diagrammatic representation of data.	C4P

Semester-IV		
No of Classes (Hour) allotted per week: 03 *****Each Lecture carried 01 Hour*****		
Syllabus allotted for theory classes	**C8T: Regional Planning and Development** 1.Concept of regions: Types of regions and their delineation. 2.Types of planning, principles and objectives of regional planning, multi- level planning in India **C9T: Economic Geography** 1.Concept and classification of economic activities. 2.Agricultural systems: Case studies of tea plantation in India and mixed farming in Europe **C10T: Environmental Geography** 1.Geographers' approach to environmental studies 2.Concept of holistic environment and system approach 3.Ecosystem: Concept structure and functions **SEC2T: Research Methods** 1. Data Analysis: Qualitative and Quantitative Analysis; Techniques Data Representation	
Lecture No.	**Term I**	**Paper**
01	Concept of region	**C8T**
02	Types of region	
03	Delineation methods of region	
04	Concept of regional planning	
05	Concept of economic activities.	**C9T**
06	Classification of economic activities.	
07	Geographers' approach to environmental studies	C10T
08	Concept of data analysis	**SEC2T**
09	Data Analysis: Qualitative Analysis	
10	Quantitative Analysis	
11	Class test on selective topics	**C8T**,

		C9T & SEC2T
Term II		
12	Concept of holistic environment and system approach	**C10T**
13	Ecosystem: Concept, structure and functions	
14	Types of planning,	**C8T**
15	principles of planning and objectives of regional planning	
16	Agricultural systems: Case studies of tea plantation in India	**C9T**
17	Class test on selective topic	**C10T, C9T & C8T**
Term III		
18	Concept of Multi- level planning in India	**C8T**
19	Discussion with example about Multi- level planning in India	
20	Revision class over C8T and doubt clearance	
21	Mixed farming in Europe	**C9T**
22	Techniques of Data Representation	**SEC2T**
23	Revision class over C10T, SEC2T and doubt clearance	**C10T,SEC 2T**
24	End - Semester questions discussion on selective topic of C8T, C9T, C10T, SEC2T & discussion about writing techniques	**C8T, C9T, C10T & SEC2T**

Semester-VI

No of Classes (Hour) allotted per week: 05
*****Each Lecture carried 01 Hour*****

Syllabus allotted for theory classes

C13T: Evolution of Geographical Thought

1.Contributions of Richthofen, Hettner and Ratzel
2. Schools of geographical thought: French, British and American;
3.Quantitative Revolution and its impact, behaviouralism, systems approach, radicalism, feminism

C14T Disaster Management

1.Landslide: Factors, vulnerability, consequences and management

DSE 3T: Soil and Biogeography

1. Principles of soil classification: Genetic and USDA. Concept of land capability and its classification.
2. Concepts of biosphere, ecosystem, biome, ecotone, community and ecology
3. Bio-diversity: Definition, types, threats and conservation measures

DSE 4T: Urban Geography

1.Aspects of urban places: Location, site and situation, Size and Spacing of Cities: The
2.Rank Size Rule, The Law of the Primate City
3.Ecological processes of urban growth; Urban fringe; City- Region
4.Case studies of Delhi, Kolkata, and Chandigarh with reference to land use

Lecture No.	Term I	Paper
01	Aspects of urban places: Location, site and situation,	**DSE4T**

02	The Rank Size Rule,	
03	The Law of the Primate City	
	Urban fringe	
	City- Region	
04	Concepts of biosphere, ecosystem,	
05	Concepts of biome,	**DSE3 T**
06	Concepts of community and ecology	
07	Contributions of Richthofen,	**C13T**
09	Contributions of Hettner and Ratzel	
10	French schools of geographical thought:	
11	British schools of geographical thought:	
12	American schools of geographical thought	
13	Landslide: Factors, vulnerability	**CC14T**
14	Landslide: consequences and management	
15	Class test on selective topic	
	Term II	
16	Case studies of Delhi with reference to land use	**DSE 4T**
17	Case studies of Kolkata with reference to land use	
18	Principles of soil classification: Genetic and USDA.	DSE3T
19	Concept of land capability and its classification.	
20	Quantitative Revolution and its impact,	**C13T**
21	Concept of Behaviouralism	
22	Concept radicalism,	
23	Concept of feminism	
24	Class test on selective topic	**DSE4T C13T & C14T**
	Term III	
25	Case studies of Chandigarh with reference to land use	**DSE4T**
26	Class test on evolution of selective topic.	
27	Doubt clearance on selective topics and revision	
28	End - Semester questions discussion on selective topic of C13T, C14T & discussion about writing techniques	
29	Bio-diversity: Definition, types,	DSE3T
30	Bio-diversity: threats and conservation measures	
31	Systems approach	CC13
32	End - Semester questions discussion on selective topic of DSE3T, DSE4T & discussion about writing techniques	**DSE3T & DSE4T CC13, CC14**

Syllabus allotted for practical classes	C14P: Disaster Management based Project Work	
Lecture No.	**Term I**	**Paper**
01	Pre field work	**C14P**
02	Preparation of questionnaire	
03	Field work and data collection	
04	Data tabulation	
05	Data tabulation	
Term II		
06	Tabulation and calculation	**C14P**
07	Graphical representation of field data	
08	Map making depends on field survey data	
Term III		
09	Analysis and interpretation	**C14P**
10	Analysis and interpretation	
11	Analysis and interpretation	

GE2 T : Geospatial Technology
No of Classes (Hour) allotted per week: 01
*****Each Lecture carried 01 Hour*****

Syllabus allotted	GE2 T : Geospatial Technology	
Lecture No.	**Term I**	**Paper**
01	Components, scope and historical development of geospatial technology	**GE2T**
02	Concepts of spheroid, ellipsoid and projection systems.	
03	Significance of WGS 84 and UTM	
04	Data types and structures in spatial technology.	
05	Classification of Remote Sensing platforms, sensors and resolution. IRS (Resourcesat and Cartosat) and Landsat systems	
06	Classification of Sensors and resolution.	
07	Concept of IRS (Resourcesat and Cartosat) and Landsat systems	
Term II		
08	Principles of land-based surveying with reference to auto level	**GE2T**
09	Principles of land-based surveying with reference to total station	
10	Doubt clearance	
Term III		
11	Principles of georeferencing of maps and images	**GE2T**
12	Discussion of previous year question.	

Department of Geography

Teaching Plan

Name of the Teacher: SK SAFIKUL HAQUE

Semester II	
Syllabus allotted	**C3T:** Human Geography **C4T:** Cartograms and Thematic Mapping **GE2T:** Geospatial Technology
No of Classes (Hour) per week	**C3T:** 2 **C4P:** 1 **GE2T:** 1
Teaching Plan	**Lecture 1:** Space. **Lecture 2:** Society. **Lecture 3:** Population–Resource regions (Ackerman). **Lecture 4:** Population growth. **Lecture 5:** Concepts of rounding, scientific notation. **Lecture 6:** Image enhancement. **Lecture 7:** Band combination. **Lecture 8:** Band rationing. **Lecture 9:** Short test. **Lecture 10:** Short test. **Lecture 11:** Tutorial. **Lecture 12:** Tutorial. **Lecture 13:** Tutorial. **Lecture 14** Tutorial. **Lecture 15:** Tutorial. **Lecture 16:** world language. **Lecture 17:** Indian language **Lecture 18:** Population growth. **Lecture 19:** Indian population growth **Lecture 20:** Population distribution. **Lecture 21:** Logarithm and anti-logarithm. **Lecture 22:** Vegetation indices **Lecture 23:** Image classification **Lecture 24:** preparation of thematic maps **Lecture 25:** Raster to vector conversion **Lecture 26 :** Sources of GIS data **Lecture 27:** Preparation of GIS data **Lecture 28:** Manipulation of GIS data **Lecture 29:** Tutorial **Lecture 30:** Tutorial **Lecture 31:** population composition **Lecture 32:** demographic transition model **Lecture 33:** Natural scales **Lecture 34:** Log scales **Lecture 35:** Traversing **Lecture 36:** Description of prismatic compass **Lecture 37:** Spatial modelling and overlay analysis. **Lecture 38:** Principles of preparing DEMs from optical. **Lecture 39:** GNSS: Principles of satellite positioning and navigation. **Lecture 40:** Collection of waypoints and exporting to GIS

	Lecture 41: RADAR sensors with reference to CartoDEM and SRTM data. **Lecture 42:** Integration of different components of spatial technology **Lecture 43:** End - Semester questions & problems discussion. **Lecture 44:** Revision. **Lecture 45:** Class test
Semester IV	
Syllabus allotted	**CC-8**: Regional Planning and Development **CC-9**: Economic Geography **CC-10**: Environmental Geography **SEC2T**: Research Methods
No of Classes (Hour) per week	**C8+9T:** 1 **C10T & SEC2T:** 1
Teaching Plan	**Lecture 1:** Metropolitan concept: metropolitan areas. **Lecture 2:** Urban agglomerations. **Lecture 3:** Concept of economic man. **Lecture 4:** Theories of choices. **Lecture 5:** Factors affecting location of economic activity with special reference to agriculture (Von Thunen). **Lecture 6:** Factors affecting location of economic activity with special reference to a industry (Weber). **Lecture 7:** Secondary activities: Manufacturing cotton textile **Lecture 8:** Perception of environment in different stages of civilization. **Lecture 9:** Secondary activities: Manufacturing iron and steel. **Lecture 10:** Structure of a Research Report: References **Lecture 11:** Short test. **Lecture 12:** Short test. **Lecture 13:** Tutorial **Lecture14:** Tutorial. **Lecture15:** Tutorial.

	Lecture 16: Development: Meaning. **Lecture 17:** Concept of manufacturing regions, special economic zones and technology parks. **Lecture 18:** Environmental programmers and policies – Global. **Lecture19:** Environmental programmers and polices- local. **Lecture20:**Environmental programmers and polices- Regional **Lecture 21:** Structure of a Research Report: Bibliography **Lecture 22:** Development: growth versus development **Lecture 23:** Structure of a Research Report: Abstract **Lecture 24:** Structure of Research Report :Key words **Lecture25:** Tutorial **Lecture 26:** Tutorial **Lecture 27:** End - Semester questions & problems discussion. **Lecture 28:** Revision. **Lecture 29:** Revision. **Lecture 30:** Class-test.
Semester VI	
Syllabus allotted	**C13T**: Evolution of Geographical Thought **C14T**: Disaster Management. **DSE3**: Soil & Bio-Geography. **DSE4**: Urban Geography.
No of Classes (Hour) per week	**C13T+ C14T:** 1 **DSE3+DSE4:** 2 **C14P:** 2
Teaching Plan	**Lecture 1:** Geography during the Age of 'Discovery' and 'Exploration'. **Lecture 2:** Contributions of Portuguese Voyages, Columbus. **Lecture 3:** Geography during the Age of 'Discovery' and 'Exploration- Vasco da Gama, Magellan, Thomas Cook). **Lecture 4:** Cyclone: Factors, vulnerability, consequences and management. **Lecture 5:** Cyclone: Consequences and management **Lecture 6:** Fire: Factors, vulnerability, consequences and management. **Lecture 7:** Fire: Consequences and management **Lecture 8:** Factors or soil formation. **Lecture 9:** Deforestation: Causes, consequences and management. **Lecture 10:** Origin of urban places in Ancient period. **Lecture 11:** Short-test. **Lecture 12:** Origin of urban places in Medieval period. **Lecture 13:** Origin of urban places in Post-Modern periods factors, stages, and characteristics. **Lecture 14:** Urban Issues: problems of housing, slums **Lecture 15:** Man as an active agent of soil transformation

	Lecture 16: Transition from Cosmography to Scientific Geography (Contributions of Bernard Varenius and Immanuel Kant). **Lecture 17:** Transition from Cosmography to Scientific Geography Dualism and Dichotomies. (General vs. Particular). **Lecture 18:** Transition from Cosmography to Scientific Geography Physical vs. Human, Regional vs. Systematic. **Lecture 19:** Transition from Cosmography to Scientific Geography, Determinism vs. Possibilism, Ideographic vs. Nomeothetic). **Lecture 20:** Short-test. **Lecture 21:** Urban Issues: problems of slums. **Lecture 22:** Urban Issues: problems of civic amenities (water and transport). **Lecture 23:** Short test. **Lecture 24:** Short test. **Lecture 25:** Tutorial. **Lecture 26:** Tutorial. **Lecture 27:** Tutorial. **Lecture 28:** Tutorial. **Lecture 29:** End- semester questions discussion **Lecture 30:** Class test