

The University of Burdwan  
B.A. /B.Sc. (Honours) in Geography (CBCS)  
Semester-II  
Hiralal Bhakat College

### CC-3: Human Geography

#### Unit-1: Nature and Principles

Topic	Teachers' Name
1.Nature, scope and recent trends of Human Geography	CG
2.Evolution of humans, concept of race and ethnicity; Major Racial Groups of the world	CG
3.Space, society and cultural regions (language and religion)	IM
4.Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world	IM

#### Unit-2: Society, Demography and Ekistics

Topic	Teachers' Name
1.Evolution of human societies: Hunting and gathering, Pastoral nomadism, Subsistence farming, Industrial and urban societies	CG
2.Human - environment relations with special reference to Arctic and hot desert regions	CG
3.Population growth and distribution, population composition; demographic transition model	BM
4.Population-Resource regions	BM
5.Human, population and environment relations with special reference to development- Environment conflict	IM
6.Social morphology and rural house types in India	SG
7.Types and patterns of rural settlements	SG
8.Functional Classification of urban settlements	SG

**CC-4 (Theory): Cartograms, Survey and Thematic Mapping**

<b>Topic</b>	<b>Teachers' Name</b>
1. Concepts of Cartograms and Thematic Maps	IM
2. Concept and utility of Isopleths and Choropleth,	CG
3. Concept, utility, and interpretation of : Climograph, Hythergraph and Ergograph	BM
4. Preparation and interpretation of demographic charts and diagrams (Age-Sex Pyramid)	BM
5. Concepts of Bearing: magnetic and true, whole-circle and reduced	SG
6. Basic concepts of surveying and survey equipments: Abneys Level, Clinometer	SG
7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite	SG
8. Interpretation of Land use and land cover maps	ND

**CC-4 (Practical): Cartograms, Survey and Thematic Mapping**

<b>Topic</b>	<b>Teachers' Name</b>
Diagrammatic representation of data: Star and Age-sex pyramid diagram, pie diagram	BM
Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method.	BM
Contouring by Dumpy Level and Prismatic Compass	SG
Determination of Height of objects using Transit Theodolite (Accessible and Inaccessible bases)	SG

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**CC-8: REGIONAL PLANNING AND DEVELOPMENT**

**Unit 1: Regional Planning**

<b>Topic</b>	<b>Teachers' Name</b>
1. Concept and Classification of Regions	IM
2. Types of Planning; Principles and Techniques of Regional Planning	IM
3. Need for Regional Planning; Multilevel Planning in India	IM
4. Metropolitan Concept: Metropolis, Metropolitan Areas, Metropolitan Region	ND

**Unit 2: Regional Development**

<b>Topic</b>	<b>Teachers' Name</b>
1. Development: Meaning, Growth versus Development	BM
2. Models for Regional Development: Growth Pole (Perroux) and Core Periphery (Hirschman)	CG
3. Model for Regional Development in India: Growth Foci (R.P.Misra)	CG
4. Concept of Regional Inequality and Disparity	CG
5. Human Development: Significance, Indicators and Measurement	RIS
6. Status of Regional Imbalances in India	RIS
7. Strategies for Regional Development in India	RIS
8. NITI Aayog and its Functions	BM

## **CC-9: ECONOMIC GEOGRAPHY**

### **Unit 1: Concepts and Approaches**

<b>Topic</b>	<b>Teachers' Name</b>
1. Meaning and Approaches to Economic Geography	BM
2. Concepts in Economic Geography: Goods; Services; Production; Consumption	BM
3. Factors Influencing Location of Economic Activity and Forces of Agglomeration	ND
4. Determining Factors of Transport Cost	ND

### **Unit 2: Economic Activities**

<b>Topic</b>	<b>Teachers' Name</b>
1. Concept and Classification of Economic Activities	SG
2. Location Theories: Von Thünen and Alfred Weber	SG
3. Primary Activities: Subsistence and Commercial Agriculture; Forestry; Fishing	BS
4. Secondary Activities: Manufacturing (Iron and Steel in India and Japan, Petrochemical in India and USA)	BS
5. Tertiary Activities: Types of Trade and Services	BS
6. Agricultural Systems: Tea Plantation in India and Mixed Farming in Europe	ND
7. Highways: Roles in Economic Development of India since 1990s	ND
8. International Trade Blocs: WTO and OPEC	RIS

## CC-10 : ENVIRONMENTAL GEOGRAPHY

### Environmental Issues (Theory)

Topic	Teachers' Name
1. Geographers' Approach to Environmental Studies	IM
2. Changes in Perception of Environment in different stages of Human Civilization	IM
3. Ecosystem: Concept, Structure and Functions	BS
4. Environmental Degradation and Pollution: Water and Air	BS
5. Environmental Issues related to Agriculture	BS
6. Urban Environmental issues related to Waste Management	ND
7. Concept and Issues related to Bio-diversity	ND
8. Environmental Programs and Policies on Forest and Wetland: National and Global	ND

### Environmental Issues (Practical)

Topic	Teachers' Name
1. Preparation of questionnaire for perception survey on environmental problems	IM
2. Environmental Impact Assessment: Leopold Matrix	CG
3. Quality assessment of soil using field kit: pH and NPK	CG
4. Interpretation of air quality using CPCB / WBPCB data	CG

## SEC -2 (Practical) : ADVANCED SPATIAL STATISTICAL TECHNIQUES

1. Concept of Probability and Normal Distribution and their Geographical Applications, Skewness (Pearson's Method)	ND
2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis	ND
3. Correlation and Regression Analysis, t-test, Spearman's Rank Correlation, Product Moment Correlation; Linear Regression	RIS
4. Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method	RIS

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**CC-13: EVOLUTION OF GEOGRAPHICAL THOUGHT**

**UNIT: 1**

<b>Topic</b>	<b>Teachers' Name</b>
1. Definition, Scope and Content of Geography; Geography as a Spatial Science	CG
2. Geography in Ancient Period: Greek and Roman	RIS
3. Development of Geography in Medieval period: Arabian	CG
4. Development of Mapping and Knowledge about the World Regional Geography in the Age of Explorations	ND
5. Classical Geography in 19th Century: Humboldt, Ritter	ND
6. Quantitative Revolution and its Critique	ND

**UNIT: 2**

<b>Topic</b>	<b>Teachers' Name</b>
1. German School of Thought	SG
2. French School of Thought	SG
3. American School of Thought	SG
4. Indian Contribution to Geography	SG
5. Concept of Determinism, Possibilism and Neo-Determinism	BS
6. Approaches to the study of Geography: Systematic and Regional	BS

## CC-14: DISASTER MANAGEMENT

### UNIT 1

Topic	Teachers' Name
1. Classification of hazards and disasters	SG
2. Approaches to hazard study: Risk perception and vulnerability assessment. Hazard paradigms	SG
3. Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building	ND
4. Hazards mapping: Data and techniques	ND

### UNIT 2

Topic	Teachers' Name
1. Earthquake: Factors, vulnerability, consequences and management	BM
2. Landslide: Factors, vulnerability, consequences and management	BM
3. Cyclone: Factors, vulnerability, consequences and management	BS
4. Fire: Factors, vulnerability, consequences and management	BS

## DISASTER MANAGEMENT PROJECT WORK

### LIST OF PRACTICAL

An individual Project Report based on any one among the following disasters incorporating preparedness, mitigation and management plan.

1. Earthquake
2. Landslide
3. Cyclone
4. Flood
5. Drought
6. River Bank Erosion
7. Mining Area Subsidence
8. Tsunami

Topic	Teachers' Name
1. Students will prepare a Project Report based on the topic mentioned by the Department;	IM/RIS/CG
2. The report should be typed in MS-Word in English language on A4 size paper in candidate's own words within 2000 words. The total number of pages in the Field Report should not exceed 20 pages including texts, figures, tables, photographs, maps, references (APA) and appendices	IM/RIS/CG
3. A copy of the bound report, duly signed by the concerned teacher, should be submitted	IM/RIS/CG
4. Preparation of maps with suitable scale and latitude and longitude	IM/RIS/CG
5. Preparation of charts/graphs in MS-Excel and duly labelled	IM/RIS/CG
6. The report should be typed in MS-Word. The font size is fixed at 12 in Times New Roman and the line spacing 1.5	IM/RIS/CG

## DSE - 3: RESOURCE GEOGRAPHY

### Unit: 1

Topic	Teachers' Name
1. Resource Geography: Its Importance and relation with other sub-disciplines	BM
2. Resource: Concept and Classification	BM
3. Functional Theory of Resource	BM
4. Problems of Resource Depletion with Special Reference to Forest, Water and Fossil Fuels	BM
5. Resource Conservation : Principles and Methods	SG
6. Concept of 'Limits to Growth'	SG

### Unit: 2

Topic	Teachers' Name
1. Distribution and Utilisation of Metallic Mineral Resources in Indian Context: Iron ore, Bauxite	BS
2. Distribution and Utilisation of Non-Metallic Mineral Resources in Indian Context: Mica, Limestone	BS
3. Distribution, Problems and Management of Energy Resources in Indian Context: Conventional (Coal) and Non-Conventional (Solar)	RIS
4. Power resources and problems with reference to Petroleum	RIS
5. Contemporary Energy Crisis and Future Scenario	IM
6. Sustainable Resource Development	IM

## DSE - 4: SOIL AND BIO-GEOGRAPHY

### Unit: 1: Soil Geography

Topic	Teachers' Name
1. Soil: Definition, Factors of Formation	CG
2. Development and Characteristics of an ideal Soil Profile	CG
3. Physical and Chemical Properties of Soil with special reference to Texture, Structure, Organic Carbon and pH	CG
4. Concept of Zonal, Azonal and Intrazonal Soil; Formation and Profile Characteristics of Laterite and Podsol	BM
5. Classification of Soil : Russian and Indian (ICAR)	BM
6. Soil Degradation and Management	BM



## Unit-2: Bio-Geography

Topic	Teachers' Name
1. Definition and Scope of Bio-geography, Meaning of Biosphere, Ecology, Ecosystem, Environment, Communities, Habitats, Niche, Ecotone and Biotopes	SG
2. Biosphere and Energy: Laws of Energy Exchange, Food Chain, Food Web and Energy Flow	BM
3. Bio-Geo Chemical Cycle: Carbon, Nitrogen	RIS
4. Factors of Plant Growth: Light, Heat, Moisture, Wind, Soil and Topography	RIS
5. Biomes – Concept and Classification; Tropical Rainforest and Temperate Grassland	ND
6. Threat to Biodiversity- Causes, Consequences and Conservation	ND

### NOTE:

1. IM- Indranil Mondal
2. ND – Niladri Das
3. RIS – Rejaul Islam Sana
4. BM- Biswajit Mondal
5. CG- Chandan Ghosh
6. BS – Biplob Sen
7. SG – Sajal Ghosh

  
HEAD  
DEPARTMENT OF GEOGRAPHY  
**HIRALAL BHAKAT COLLEGE**  
NALHATI, BIRBHUM