

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

**CC-1B/2B Physical Environment and Surveying**

**Unit I: Climatology, Soil and Biogeographyv (Theory)**

Topic	Teachers' Name
1. Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere.	ND
2. Horizontal and vertical distribution of temperature	ND
3. Forms of precipitation and types of rainfall	SG
4. Tropical and Temperate Cyclones, Climatic Classification (Koppen)	SG
5. Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	CG
6. Soil forming factors. Soil formation (Podzol and Laterite)	CG
7. Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem.Environment, Ecotone, Communities, Habitats and Biotopes.	BM
8. Biomes: Rainforest and Temperate Grassland	BM

**Unit II: Surveying and Levelling (Practical)**

Topic	Teachers' Name
1. Definition and classification of surveying	IM
2. Plane table survey by radiation method.	SG
3. Open and close traversing by Prismatic Compass	SG
4. Drawing of longitudinal profile by Dumpy level	SG

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**CC-D/2D : ENVIRONMENTAL GEOGRAPHY**

**Unit 1: (Theory)**

Topic	Teachers'Name
1. Concepts and approaches of Environmental Geography	IM
2. Concept, Structure and Functions of Ecosystem	BS
3. Human-Environment Relationship in Mountain and Coastal Regions	BS
4. Environmental Problems and Management: Air and Water Pollution	BS
5. Environmental Programmes and Policies: MAB	BS
6. Forest and Wild Life Policy of India	ND
7. Environmental Movements in India: Chipko	ND
8. Wetlands: Ramsar Sites in India	ND

**Unit 2: (Practical)**

Topic	Teachers' Name
1. Questionnaire for Air Pollution and Health Perception Survey	CG
2. Soil Test using Kit : pH and Organic Carbon	CG
3. Mapping of Wetlands from Topographical Sheet	CG
4. Mapping of Forest from Topographical Sheet	CG

**SEC-2 : REGIONAL PLANNING AND DEVELOPMENT**

Topic	Teachers' Name
1. Definition of Region; Types of Regions	IM
2. Regional Planning – Concept and Significance	IM
3. Human Development Index – Concept and Indicators	RIS
4. Agricultural Development in India Since 1970s	RIS
5. Industrial Development in India Since 1990s	RIS
6. Planning Region: DVC	CG
7. Preparation of Questionnaire on Sanitation and Health	IM
8. Preparation of Questionnaire on Waste Management	IM

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**DSE-1B/2B : DISASTER MANAGEMENT**

**UNIT: 1 Disaster Management**

Topic	Teachers' Name
1. Meaning and Classification of Hazards and Disasters.	SG
2. Approaches to hazard study: Risk perception and vulnerability assessment.	SG
3. Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.	SG
4. Hazard mapping: Data and techniques.	ND
5. Earthquake: Causes, Consequences and Management	BM
6. Landslide: Causes, Consequences and Management	BM
7. Cyclone: Causes, Consequences and Management	BS
8. Flood: Causes, Consequences and Management	ND

**Unit: 2 Disaster Management Project Work**

Topic	Teachers' Name
An individual Project Report based on any one case study among the following disasters incorporating perception survey and a preparedness plan in the vicinity of the candidate's institution or residence: 1. Landslide 2. Cyclone 3. Flood 4. Drought	IM/CG

**SEC-4 : Collection, Mapping and Interpretation of Pedological Data**  
**Mapping and Analysis of Pedological Data**

Topic	Teachers' Name
1. Soil Sampling Techniques	CG
2. Representation of Soil Texture Data using Ternary Diagram	CG
3. Estimation of Nitrogen using Soil Kit	CG
4. Estimation of Soil Organic Carbon using Soil Kit	BM
5. Estimation of Soil Ph using Soil Kit	BM
6. Analysis and Mapping pH and Organic Carbon	BM

NOTE:

1. IM- Indranil Mondal
2. BM- Biswajit Mondal
3. CG- Chandan Ghosh
4. BS – Biplob Sen
5. SG – Sajal Ghosh



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