

**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.	SS
2. Horizontal and vertical distribution of temperature	SS
3. Forms of precipitation and types of rainfall	IC
4. Tropical and Temperate Cyclones, Climatic Classification (Koppen)	IC
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.	SS
3. Open and close traversing by Prismatic Compass	SS
4. Drawing of longitudinal profile by Dumpy level	SS

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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	IC
3. Human-Environment Relationship in Mountain and Coastal Regions	IC
4. Environmental Problems and Management: Air and Water Pollution	IC
5. Environmental Programmes and Policies: MAB	IC
6. Forest and Wild Life Policy of India	IM
7. Environmental Movements in India: Chipko	IM
8. Wetlands: Ramsar Sites in India	IM

**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	SS
4. Agricultural Development in India Since 1970s	SS
5. Industrial Development in India Since 1990s	SS
6. Planning Region: DVC	CG
7. Preparation of Questionnaire on Sanitation and Health	IM
8. Preparation of Questionnaire on Waste Management	IM

**NOTE:**

1. IM- Indranil Mondal
2. BM- Biswajit Mondal
3. CG- Chandan Ghosh
4. SS- Subhasish Sytradhar
5. IC-Indrajit Chowdhuri

  
HEAD  
DEPARTMENT OF GEOGRAPHY  
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