

**Department of Geography  
Sarat Centenary College  
Academic Calendar & Plan**

**Distribution of syllabus into Modules and Units of B.A. General Course CBCS**

**Semester-I**

**Orientation Programme – 1<sup>st</sup> week of July - General outline on the emergence of Geography as an academic discipline and its Scope & Importance along with brief introduction programme**

**1st Module (July to September)**

**Core Course IA: Geomorphology and Cartography**

Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05

**Name of the Teacher: Soumi Chattopadhyay, Jayanta Manik**

**Theory**

**Unit 1: Weathering: Types and related landforms. (JM)**

**Unit 2: Lithosphere – Internal Structure of Earth based on Seismic Evidence (JM)**

**Unit 3: Plate Tectonics and its associated landforms (JM)**

**Unit 4: Landform development in arid regions (JM)**

**Practical**

**Unit 1: Linear and Comparative scale (SC)**

**Unit 2: Proportional diagrams: Circles and squares (SC)**

**2<sup>nd</sup> Module (October to December)**

**Core Course IA: Geomorphology and Cartography**

Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05

**Name of the Teacher: Soumi Chattopadhyay, Jayanta Manik**

**Theory**

**Unit 5: Landform development in glaciated regions. (SC)**

**Unit 6: Development of fluvial landforms (SC)**

**Unit 7: Fluvial Cycle of Erosion – Davis and Penck (SC)**

**Unit 8: Hydrological Cycle and ground water. (SC)**

**Practical**

**Unit 3: Composite bar diagram and age-sex pyramid. (JM)**

**Unit 4: Taylor's Climograph and Hythergraph (JM)**

**Internal Assessment: 1<sup>st</sup> Week of December**

**Theory and Practical Examination: as per notification of B.U. (Tentatively on December)**

**Semesterr-II**

**1st Module (January to March)**

**Core Course IB: Physical Environment and Surveying**

Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05

**Name of the Teacher: Soumi Chattopadhyay, Aditi Sinha, Suchana Banerjee**

### **Theory**

**Unit 1: Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere. (SC)**

**Unit 2: Horizontal and vertical distribution of temperature (SC)**

**Unit 3: Forms of precipitation and types of rainfall (SC)**

**Unit 4: Tropical and Temperate Cyclones, Climatic Classification (Koppen) (SC)**

### **Practical**

**Unit 1: Definition and classification of surveying (SC)**

**Unit 2: Plane table survey by radiation method. (SC)**

## **2<sup>nd</sup> Module (October to December)**

### **Core Course IB: Physical Environment and Surveying**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Basudev Halder, Sanjib Nayek, Suchana Banerjee**

### **Theory**

**Unit 5: Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH) (JM)**

**Unit 6: Soil forming factors. Soil formation (Podzol and Laterite) (JM)**

**Unit 7: Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem.Environment, Ecotone, Communities, Habitats and Biotopes. (JM)**

**Unit 8: Biomes: Rainforest and Temperate Grassland. (JM)**

### **Practical**

**Unit 3: Open and close traversing by Prismatic Compass (JM)**

**Unit 4: Drawing of longitudinal profile by Dumpy level (JM)**

**Internal Assessment: 4<sup>th</sup> Week of May**

**Theory and Practical Examination: as per notification of B.U. (Tentatively on June)**

## **Semesterr-III**

### **1st Module (July to September)**

#### **Core Course IC: Human Geography and Map Study**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Sanjib Nayek, Suchana Banerjee**

### **Theory**

**Unit 1: Definition, Nature, Major Subfields, Contemporary Relevance (SB)**

**Unit 2: Space and Society: Cultural Regions; Race; Religion and Language (SB)**

**Unit 3: Eskimos: Adjustment to the environment and recent development (SB)**

**Unit 4: Population: Population Growth and Demographic Transition Theory (SB)**

### **Practical**

**Unit 1: Simple Conical projection with one standard parallel (SN)**

**Unit 2: Cylindrical Equal Area projection (SN)**

### **SEC-1**

#### **Computer Basics and Computer Applications**

**Credits: Practical-2, Marks – 50, Practical – 40, Internal Assessment – 10**

**Name of the Teacher: Basudev Halder, Raj Kumar Kundu**

## **Practical**

**Unit 1: Numbering Systems; Binary Arithmetic (RKK)**

**Unit 2: Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation. (BH)**

### **2<sup>nd</sup> Module (October to December)**

#### **Core Course IC: Human Geography and Map Study**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Soumi Chattopadhyay, Sanjib Nayek**

## **Theory**

**Unit 5: Types of population migration with reference to India (SC)**

**Unit 6: World Population Distribution and Composition (Age, Gender and Literacy) (SC)**

**Unit 7: Settlements: Types and Patterns of Rural Settlements (SN)**

**Unit 8: Classification of Urban Settlements; Functional classification of towns (SN)**

## **Practical**

**Unit 3: Interpretation of Topographical maps: Relation between Physiography, drainage and settlement (SC)**

**Unit 4: Interpretation of weather maps (SC)**

**Internal Assessment: 1<sup>st</sup> Week of December**

**Theory and Practical Examination: as per notification of B.U. (Tentatively in December)**

### **SEC-1**

#### **Computer Basics and Computer Applications**

**Credits: Practical-2, Marks – 50, Practical – 40, Internal Assessment – 10**

**Name of the Teacher: Basudev Halder, Jayanta Manik**

## **Practical**

**Unit 3: Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram (BH)**

**Unit 4: Internet Surfing: Generation and extraction of information (JM)**

**Internal Assessment: 1<sup>st</sup> Week of December**

**Practical Examination: as per notification of B.U. (Tentatively in December)**

## **Semester IV**

### **1st Module (July to September)**

#### **Core Course ID: Environmental Geography**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Soumi Chattopadhyay**

## **Theory**

**Unit 1: Concepts and approaches of Environmental Geography (SC)**

**Unit 2: Concept, Structure and Functions of Ecosystem (SC)**

**Unit 3: Human-Environment Relationship in Mountain and Coastal Regions (SC)**

**Unit 4: Environmental Problems and Management: Air and Water Pollution (SC)**

## **Practical**

**Unit 1: Questionnaire for Air Pollution and Health Perception Survey (SC)**

**Unit 2: Soil Test using Kit : pH and Organic Carbon (SC)**

### **2<sup>nd</sup> Module (October to December)**

**Core Course ID: Environmental Geography**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Sanjib Nayek**

**Theory**

**Unit 5: Environmental Programmes and Policies: MAB (SN)**

**Unit 6: Forest and Wild Life Policy of India (SN)**

**Unit 7: Environmental Movements in India: Chipko (SN)**

**Unit 8: Wetlands: Ramsar Sites in India (SN)**

**Practical**

**Unit 3: Mapping of Wetlands from Topographical Sheet (SN)**

**Unit 4: Mapping of Forest from Topographical Sheet (SN)**

**Internal Assessment: 4<sup>th</sup> Week of May**

**Theory and Practical Examination: as per notification of B.U. (Tentatively in December)**

**Semester V**

**Ist Module (July to September)**

**Discipline Specific Elective**

**DSE 1A OR: ECONOMIC GEOGRAPHY**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Soumi Chattopadhyay, Aditi Sinha, Suchana Banerjee**

**Theory**

**Unit 1: Scope and Content of Economic Geography (AS)**

**Unit 2: Von Thunen Theory of Land Use (AS)**

**Unit 3: Theory of Industrial Location – Weber (AS)**

**Unit 4: Types of Farming (AS)**

**Practical**

**Unit 1: Students will prepare a field report based on primary data collected from field survey and secondary data collected from different sources for either a rural area (mouza) or an urban area (municipal ward) based on cadastral or municipal maps to study specific problems (SC)**

**Unit 2: The report should be hand written in candidate's own words (within 2000 words) (SB)**

**SEC-3 OR**

**COLLECTION MAPPING AND INTERPRETATION OF CLIMATIC DATA**

**Credits: Practical-2, Marks – 50, Practical – 40, Internal Assessment – 10**

**Name of the Teacher: Basudev Halder, Jayanta Manik**

**Practical**

**Unit 1: Sources of Climatic Data (BH)**

**Unit 2: Instruments for Recording of Climatic Data (BH)**

**Unit 3: Preparation of Rainfall – Temperature Graph (BH)**

**Unit 4: Preparation of Climograph and Hythergraph (JM)**

**2<sup>nd</sup> Module (October to December)**

**DSE 1A OR: ECONOMIC GEOGRAPHY**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Soumi Chattopadhyay, Suchana Banerjee, Sanjib Nayek**

**Theory**

**Unit 5: Intensive Subsistence Farming and Plantation Agriculture (SN)**

**Unit 6: Commercial Fishing (SN)**

**Unit 7: Mining (iron ore, coal and petroleum) (SN)**

**Unit 8: Cotton Textile Industry, Petro-Chemical Industry (SN)**

**Practical**

**Unit 3: The total number of pages in the Field Report should not exceed 30 pages including texts, figures, tables, photographs, maps, references (APA) and appendices (SC)**

**Unit 4: A copy of the bound report, duly signed by the concerned teacher, should be submitted (SC)**

**Unit 5: Preparation of maps (hand-drawn) with suitable scale and latitude-longitude (SB)**

**Internal Assessment: 1<sup>st</sup> Week of December**

**Theory and Practical Examination: as per notification of B.U. (Tentatively on December)**

**SEC-3 OR**

**COLLECTION MAPPING AND INTERPRETATION OF CLIMATIC DATA**

**Credits: Practical-2, Marks – 50, Practical – 40, Internal Assessment – 10**

**Name of the Teacher: Basudev Halder, Jayanta Manik**

**Practical**

**Unit 5: Preparation of Ergograph (JM)**

**Unit 6: Drawing of Windrose Diagram (JM)**

**Unit 7: Drawing Isotherm and Isohyet (BH)**

**Unit 8: Interpretation of daily Indian Weather Map (BH)**

**Internal Assessment: 1<sup>st</sup> Week of December**

**Practical Examination: as per notification of B.U. (Tentatively on December)**

**Semester VI**

**Ist Module (July to September)**

**DSE 1B: DISASTER MANAGEMENT**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Soumi Chattopadhyay, Aditi Sinha, Suchana Banerjee**

**Theory**

**Unit 1: Meaning and Classification of Hazards and Disasters. (AS)**

**Unit 2: Approaches to hazard study: Risk perception and vulnerability assessment. (AS)**

**Unit 3: Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building. (AS)**

**Unit 4: Hazard mapping: Data and techniques. (AS)**

**Practical**

**Unit 1: Disaster Management Project Work**

**I. Landslide (SC)**

**II. Cyclone (SB)**

**SEC-4 OR**

**Rocks and Minerals and their Megascopic Identification**

**Credits: Practical-2, Marks – 50, Practical – 40, Internal Assessment – 10**

**Name of the Teacher: Basudev Halder, Jayanta Manik**

**Practical**

**Unit 1. Differences in Rocks and Minerals (BH)**

**Unit 2. Process of Collection of Rocks and Minerals and their Preservation (BH)**

**Unit 3. Identifiable Characteristics of Rocks (JM)**

**2<sup>nd</sup> Module (October to December)**

**DSE 1B: DISASTER MANAGEMENT**

**Credits: Theory-4, Practical-2, Marks – 75, Theory – 40, Practical – 20, Internal Assessment – 10, Attendance-05**

**Name of the Teacher: Basudev Halder, Soumi Chattopadhyay**

**Theory**

**Unit 5: Earthquake: Causes, Consequences and Management (SC)**

**Unit 6: Landslide: Causes, Consequences and Management (SC)**

**Unit 7: Cyclone: Causes, Consequences and Management (BH)**

**Unit 8: Flood: Causes, Consequences and Management (BH)**

**Practical**

**Unit 5: Disaster Management Project Work**

**III. Flood (SC)**

**IV. Drought (SB)**

**Internal Assessment: 4<sup>th</sup> Week of May**

**Theory and Practical Examination: as per notification of B.U. (Tentatively on June)**

**SEC-4 OR**

**COLLECTION MAPPING AND INTERPRETATION OF CLIMATIC DATA**

**Credits: Practical-2, Marks – 50, Practical – 40, Internal Assessment – 10**

**Name of the Teacher: Jayanta Manik, Soumi Chatopadhyay, Suchana Banerjee**

**Practical**

**Unit 4. Identifiable Characteristics of Minerals (JM)**

**Unit 5. Megascopic Identification of Rocks -Basalt, Granite, Sandstone, Gneiss, Limestone (SC)**

**Unit 6. Megascopic Identification of Minerals – Bauxite, Quartz, Hematite, Mica, Chalcopyrite (SB)**

**Internal Assessment: 4<sup>th</sup> Week of May**

**Practical Examination: as per notification of B.U. (Tentatively on June)**

**Counselling Programme – Final week of June- General outline on the admission and scope of higher education and related jobs**