

**Department of Geography
Sarat Centenary College**

Academic Calendar & Plan of 2020-2021

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

Semester-I

Orientation Programme – 1st 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)

2nd 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: 1st 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)

2nd 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: 4th 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)

2nd 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: 1st 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: 1st 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)

2nd 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: 4th 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)

2nd 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: 1st 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: 1st 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)

2nd 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: 4th 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: 4th 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