

Dept. of Geography, Bankura Sammilani College

MODULE BREAKUP OF THE SYLLABUS

SESSION 2022-23

CLASS: Sem-I (Geography Prog)

Couse Code: SPGEO/101/C-1A

Physical Basis of Earth

Month	Topic
July – August -September	<p style="text-align: center;">Unit 1: Earth: Origin and Evolution</p> <ul style="list-style-type: none">➤ Origin of Earth (Nebular Hypothesis of Laplace)➤ Geological Time Scale and Geological History of the Earth➤ Isostasy: Origin of the concept, Theories of Airy and Pratt, Isostatic Adjustments➤ Internal Structure of the Earth: Seismological Evidences, physical, chemical and seismic properties of Earth layers
	<p style="text-align: center;">Unit 2: Tectonic Theories and Processes</p> <ul style="list-style-type: none">➤ Continental Drift Theory of Alfred Wegener➤ Palaeo-Magnetism and Sea Floor Spreading➤ Tectonic Processes in relation to Plate Tectonics; Orogenesis, Earthquake, Vulcanicity
October – November - December	<p style="text-align: center;">Unit 2: Tectonic Theories and Processes</p> <ul style="list-style-type: none">➤ Plate Tectonic Theory; Plate Composition, Plate Movement, Plate Margins, Triple Junctions <p style="text-align: center;">Unit 3: Process Geomorphology</p> <ul style="list-style-type: none">➤ Evolution of landforms on Uniclinal, Folded and Faulted Strata➤ Landscape Evolution Models: Davis, Penck and Hack➤ Climatic Geomorphology: Basic conceptsHillslopes: Genesis and Morphology

Dept. of Geography, Bankura Sammilani College

MODULE BREAKUP OF THE SYLLABUS

SESSION 2022-23

CLASS : Sem-III (Geography Prog)

Course Code: SPGEO/301/C-1C

Maps and Diagrams

Month	Topic
July – August September	<p>Unit-1: Scale and Cartograms</p> <ul style="list-style-type: none">➤ Construction of Linear and Comparative (Unit)➤ Cartograms: Circle, Square and Pie graph➤ Age-Sex Pyramid, Dependency Ratio➤ Population Maps and Diagrams: Population Density by Choropleth, Distribution by Dot and Sphere <p>Unit-2: Map Projections</p> <ul style="list-style-type: none">➤ Map Projections: Nature and Classification➤ Principles, Theories, Construction and Properties of select Map Projections: Simple Conical with one standard parallel, Cylindrical Equal Area, Polar Zenithal Stereographic
October – November - December	<p>Unit-3: Surveying</p> <ul style="list-style-type: none">➤ Concepts and Principles: Angles, Bearing and Azimuths, Traversing, Radiation, Intersection➤ Prismatic Compass: Preparation of landuse maps by open and closed traverse; computations of compass traverse- Included Angle, Area of traverse➤ Levelling by Dumpy Level: Profile <p>Unit-4: Field Report</p> <ul style="list-style-type: none">➤ Each student will prepare an individual 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.

Dept. of Geography, Bankura Sammilani College
MODULE BREAKUP OF THE SYLLABUS
CLASS: Sem-III (Geography Prog)
Course Code: SPGEO/304/SEC-1
Computer Basics

Month	Topic
July – August- September	<ul style="list-style-type: none"> ➤ Knowing computer: What is Computer, Basic Applications of Computer, Computer Memory, Concepts of Hardware and Software; Operating System; Running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders, ➤ Understanding Word Processing
October – November - December	<ul style="list-style-type: none"> ➤ Using Spread Sheet: Basics of Spreadsheet; Manipulation of cells; Formulas and Functions; Editing of Spread Sheet, printing of Spread Sheet. ➤ Concept of Internet; Applications of Internet; World Wide Web; Email; ➤ Making Small Presentation: Microsoft Power point

Dept. of Geography, Bankura Sammilani College
MODULE BREAKUP OF THE SYLLABUS
SESSION 2022-23
CLASS: SEM V (Geography Prog)
Course Code: SHGEO/501/DSE-1A
Hydrology and Oceanography

Month	Topic
July – August - September	<p style="text-align: center;">Unit 1: Hydrology</p> <ul style="list-style-type: none"> ➤ Global hydrological cycle ➤ Run off: controlling factors. Infiltration and evapotranspiration. Run off cycle <p style="text-align: center;">Unit 2: Oceanography</p> <ul style="list-style-type: none"> ➤ Major relief features of the ocean floor: characteristics and origin according to plate tectonics. ➤ Air-Sea interactions, ocean circulation, wave and tide.
October – November - December	<p style="text-align: center;">Unit 1: Hydrology</p> <ul style="list-style-type: none"> ➤ Rainwater harvesting and watershed management ➤ Groundwater: Occurrence and storage. Factors controlling recharge, discharge and movement. <p style="text-align: center;">Unit 2: Oceanography</p> <ul style="list-style-type: none"> ➤ Coral reefs: Formation, classification and threats. ➤ Marine resources: Classification and sustainable utilisation

Dept. of Geography, Bankura Sammilani College
MODULE BREAKUP OF THE SYLLABUS
SESSION 2022-23 CLASS : Sem-V (Geography Prog)
Course Title: SPGEO/504/SEC-3
Remote Sensing

Month	Topic
July – August- September	<ul style="list-style-type: none">➤ Basic Concepts: Energy Sources, Interactions with Atmosphere, Sensing Systems, Data Products,➤ 1 Principles of preparing Standard False Colour Composites
October – November - December	<ul style="list-style-type: none">➤ Principles of image interpretation and feature extraction. Preparation of inventories of land use land cover (LULC) features from satellite images.