Dept. of Geography, Bankura Sammilani College

MODULE BREAKUP OF THE SYLLABUS

SESSION 2022-23

CLASS: Sem-I (Geography Generic)

Couse Code: SHGEO/103/GE-1

Physical Basis of Earth

Month	Topic
July – August - September	**Unit 1: Earth: Origin and Evolution** ➢ 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 **Unit 2: Tectonic Theories and Processes** ➢ 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	**Unit 2: Tectonic Theories and Processes** ➢ Plate Tectonic Theory; Plate Composition, Plate Movement, Plate Margins, Triple Junctions **Unit 3: Process Geomorphology** ➢ Evolution of landforms on Uniclinal, Folded and Faulted Strata ➢ Landscape Evolution Models: Davis, Penck and Hack ➢ Climatic Geomorphology: Basic concepts Hillslopes: Genesis and Morphology

Dept. of Geography, Bankura Sammilani College

MODULE BREAKUP OF THE SYLLABUS

SESSION 2022-23

CLASS : Sem-III (Geography Generic)

Course Code: SPGEO/304/GE-3

Maps and Diagrams

Month	Topic
July – August September	**Unit-1: Scale and Cartograms** ➢ 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 **Unit-2: Map Projections** ➢ 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	**Unit-3: Surveying** ➢ 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 **Unit-4: Field Report** ➢ 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.