

MODULE FOR CC1

GEOGRAPHY (HONOURS)

CC1 - Geotectonics and Geomorphology

| SL NO | TOPICS | SUB-TOPICS | NO. OF LECTURES AND TUTORIALS | NAME OF TEACHERS |
|--------|--|--|-------------------------------|------------------|
| UNIT 1 | GEOTECTONICS | | | |
| 1. | EARTH'S TECTONIC AND STRUCTURAL EVOLUTION WITH REFERENCE TO GEOLOGICAL TIME SCALE | | | |
| | | GEOLOGICAL TIME SCALE | 3 | MM |
| | | EARTH'S TECTONIC AND STRUCTURAL EVOLUTION | 2+1 | MM |
| 2. | EARTH'S INTERIOR WITH SPECIAL REFERENCE TO SEISMOLOGY | | | MM |
| | | SEISMIC WAVES | 3 | MM |
| | | EARTH'S INTERIOR STRUCTURE | 3+1 | |
| 3 | CONCEPT OF ISOSTASY: THEORIES OF AIRY AND PRATT | | | |
| | | CONCEPT OF ISOSTASY | 3 | MM |
| | | VIEWS OF AIRY | 3 | MM |
| | | VIEWS OF PRATT | 3 | MM |
| | | COMPARATIVE ANALYSIS | 3+2 | MM |
| 4 | PLATE TECTONICS: PROCESSES AT CONSTRUCTIVE, CONSERVATIVE, DESTRUCTIVE BOUNDARIES AND HOTSPOTS: RESULTING LANDFORMS | CONCEPT OF PLATE TECTONICS | 2 | MM |
| | | CONSTRUCTIVE, CONSERVATIVE, DESTRUCTIVE BOUNDARIES AND HOTSPOTS: RESULTING LANDFORMS | 3+1 | MM |
| UNIT 2 | GEOMORPHOLOGY | | | |
| 1 | DEGRADATIONAL PROCESSES: WEATHERING, MASS WASTING AND RESULTANT LANDFORMS | CONCEPT OF WEATHERING AND TYPES | 2 | BM |
| | | PHYSICAL WEATHERING AND RESULTANT LANDFORMS | 2 | BM |
| | | CHEMICAL WEATHERING AND RESULTANT LANDFORMS | 2+1 | BM |
| | | BIOLOGICAL WEATHERING | 2 | BM |

| | | | | |
|---|---|---|------|----|
| 2 | MODELS OF LANDSCAPE EVOLUTION: VIEWS OF DAVIS PENCK AND HACK | LANDSCAPE EVOLUTION- CONCEPT | 2 | MM |
| | | CONCEPT OF DAVIS | 2 | MM |
| | | CONCEPT OF PENCK | 2+1 | MM |
| | | CONCEPT OF HACK | 2 | MM |
| 3 | SLOPE DEVELOPMENT: CONCEPT OF WOOD | CONCEPT OF SLOPE | 1 | KP |
| | | SLOPE DEVELOPMENT ACCORDING TO WOOD | 2 +1 | KP |
| 4 | DEVELOPMENT OF RIVER NETWORK AND LANDFORMS ON UNICLINAL AND FOLDED STRUCTURES | BASIC CONCEPTS | 2 | KP |
| | | DEVELOPMENT OF RIVER NETWORK AND LANDFORMS ON UNICLINAL STRUCTURES | 2 | KP |
| | | DEVELOPMENT OF RIVER NETWORK AND LANDFORMS ON FOLDED STRUCTURES | 2+1 | KP |
| 5 | TYPES OF ROCKS, MINEROLOGICAL COMPOSITION OF IGNEOUS ROCKS: LANDFORMS ON IGNEOUS ROCKS WITH SPECIAL REFERENCE TO GRANITE AND BASALT | TYPES OF ROCKS | 2 | KG |
| | | MINEROLOGICAL COMPOSITION OF IGNEOUS ROCKS | 1 | KG |
| | | LANDFORMS ON IGNEOUS ROCKS WITH SPECIAL REFERENCE TO GRANITE AND BASALT | 2+1 | KP |
| 6 | KARST LANDFORMS: SURFACE AND SUB-SURFACE | CONCEPT OF KARST TOPOGRAPHY | 1 | KG |
| | | PROCESSES IN KARST REGION | 1 | KG |
| | | LANDFORMS | 2+1 | KG |
| 7 | GLACIAL AND FLUVIO-GLACIAL PROCESSES AND LANDFORMS | GLACIERS- CONCEPT, TYPES AND DISTRIBUTION | 2 | BM |
| | | EROSIONAL PROCESSES AND LANDFORMS | 2+1 | BM |
| | | DEPOSITIONAL PROCESSES AND LANDFORMS | 2 | BM |
| | | FLUVIO-GLACIAL LANDFORMS | 1 | BM |
| 8 | AEOLIAN AND FLUVIO-AEOLIAN PROCESSES AND LANDFORMS | AEOLIAL PROCESSES- CONCEPT | 1 | KG |
| | | EROSIONAL PROCESSES AND LANDFORMS | 2 | KG |
| | | DEPOSITIONAL PROCESSES AND LANDFORMS | 2+1 | KG |
| | | FLUVIO-AEOLIAN LANDFORMS | 2 | KG |
| | | | | |

MODULE FOR CC2
GEOGRAPHY (HONOURS)

CC2 (Theory) – Cartographic Techniques and Geological map study

| SL NO | TOPICS | SUB-TOPICS | NO. OF LECTURES | NAME OF TEACHERS |
|--------|--|--|-----------------|------------------|
| UNIT 1 | | | | |
| 1. | Maps: Classification and Types. Components of a Map | | 6 | MM |
| 2. | Concept of Scales: Plain, Comparative, Diagonal and Vernier | | 06 | MM |
| 3 | Coordinate Systems: Polar and Rectangular. Concept of Geoid and Spheroid. Map Projections: Classification, Properties and Uses. Concept and Significance of UTM Projection | Coordinate Systems: Polar and Rectangular | 03 | MM |
| | | Concept of Geoid and Spheroid | 01 | MM |
| | | Map Projections: Classification, Properties and Uses | 04 | MM |
| | | Concept and Significance of UTM Projection | 02 | MM |
| 4 | Concept of Generating Globe, Grids: Angular and Linear Systems of Measurement | | 04 | MM |
| 5 | Survey of India Topographical Maps: Reference scheme of Old and Open series | | 6 | BM |
| 6 | Delineation of Drainage Basin from Survey of India Topographical Map. Concept of Relief, Slope and Stream Order. | | 6 | MM |
| 7 | Types of rocks and minerals. Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena | | 6 | KP |
| 8 | Concept of Bedding Plane, Unconformity and Non-conformity, thickness of Bed, Dip, Throw, Hade, heave | | 6 | KP |

CC2 (Practical) – Cartographic Techniques and Geological map study

| SL NO | TOPICS | SUB-TOPICS | NO. OF LECTURES AND TUTORIALS | NAME OF TEACHERS |
|--------|--|--|-------------------------------|------------------|
| UNIT 1 | | | | |
| 1. | Construction of Scales: Plain, Comparative, Diagonal and Vernier | | 04 | MM |
| | | Construction of Plain Scales | 01 | MM |
| | | Construction of Comparative Scales | 01 | MM |
| | | Construction of Diagonal Scales | 01 | MM |
| | | Construction of Vernier Scales | 01 | MM |
| 2. | Construction of Projections: Polar Zenithal Stereographic, Simple Conic with two Standard Parallels, Bonne's and Mercator's | | 04 | MM |
| | | Construction of Projections: Polar Zenithal Stereographic, | 01 | MM |
| | | Construction of Projections: Simple Conic with two Standard Parallels | 01 | MM |
| | | Construction of Projections: Bonne's | 01 | MM |
| | | Construction of Projections: Mercator's | 01 | MM |
| 3 | Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Slope map (Wentworth), and Stream Ordering (Strahler) on a Drainage Basin. | | | BM |
| | | Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite) | 01 | BM |
| | | Preparation of Relative Relief Map | 01 | BM |

| | | | | |
|---|--|---|----|----|
| | | Slope map (Wentworth) | 01 | BM |
| | | Stream Ordering(Strahler) on a Drainage Basin | 01 | BM |
| 4 | Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted structure); Drawing of Geological section and Interpretation of the Map. | | 04 | KG |
| | | | | |

MODULE FOR CC3

GEOGRAPHY (HONOURS)

CC3 (Theory) – Human Geography

| SL NO | TOPICS | SUB-TOPICS | NO. OF LECTURES AND TUTORIALS | NAME OF TEACHERS |
|--------|---|--|-------------------------------|------------------|
| UNIT 1 | Nature and Principles | | | |
| 1. | Nature, scope and recent trends of Human Geography | | | MM |
| | | Nature and scope | 3 | |
| | | Recent trends of Human Geography | 3+1 | |
| 2. | Evolution of humans, concept of race and ethnicity; Major Racial Groups of the world | | | KP |
| | | Evolution of humans | 2 | |
| | | Concept of race and ethnicity | 3 | |
| | | Major Racial Groups of the world | 4+1 | |
| 3 | Space, society and cultural regions (language and religion) | | | KP |
| | | Space and society | 2 | |
| | | Cultural regions (language and religion) | 4+1 | |
| 4 | Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world | | 4 | KP |
| | | Concept of Culture | 1 | |
| | | Cultural Diffusion, Convergence | 2 | |
| | | Cultural Realms of the world | 2+1 | |
| UNIT 2 | Society, Demography and Ekistics | | | |
| 1 | Evolution of human societies: Hunting and gathering, Pastoral nomadism, Subsistence farming, Industrial and urban societies | | | KP |
| | | Evolution of human societies | 3 | |

| | | | | |
|---|--|--|-----|----|
| | | Hunting and gathering, Pastoral nomadism, Subsistence farming | 4 | |
| | | Industrial and urban societies | 2+1 | |
| 2 | Human - environment relations with special reference to Arctic and hot desert regions | | 2 | BM |
| | | Human - environment relations with special reference to Arctic | 4 | |
| | | Human - environment relations with special reference to hot desert regions | 4+1 | |
| | | | | |
| 3 | Population growth and distribution, population composition; demographic transition model | | | BM |
| | | Population growth and distribution, population composition | 4 | |
| | | Demographic transition model | 4+1 | |
| 4 | Population–Resource regions | | 3+1 | BM |
| 5 | Human, population and environment relations with special reference to development–environment conflict | | | BM |
| | | Human population and Environment relations | 3 | |
| | | Development–environment conflict | 3+1 | |
| 6 | Social morphology and rural house types in India | | | KG |
| | | Social morphology | 1 | |
| | | Rural house types in India | 3+1 | |
| 7 | Types and patterns of rural settlements | | 3+1 | KG |
| 8 | Functional Classification of urban settlements | | 4+1 | KG |

MODULE FOR CC4
GEOGRAPHY (HONOURS)

CC4 (Theory) – Cartograms, Survey and Thematic Mapping

| SL NO | TOPICS | NO. OF LECTURES | NAME OF TEACHERS |
|-------|---|-----------------|------------------|
| 1. | Concepts of Cartograms and Thematic Maps | 8 | KG |
| 2. | Concept and utility of Isopleths and Choropleth | 8 | KG |
| 3 | Concept, utility, and interpretation of Climograph, Hythergraph and Ergograph | 8 | BM |
| 4 | Preparation and interpretation of demographic charts and diagrams (Age-Sex Pyramid) | 8 | BM |
| 5 | Concepts of Bearing: magnetic and true, whole-circle and reduced | 8 | MM |
| 6 | Basic concepts of surveying and survey equipments: Abneys Level, Clinometer | 8 | MM |
| 7 | Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite | 8 | MM |
| 8 | Interpretation of Land use and land cover maps | 8 | MM |

CC4 (Practical) – Cartograms, Survey and Thematic Mapping

| SL NO | TOPICS | NO. OF LECTURES AND TUTORIALS | NAME OF TEACHERS |
|-------|--|-------------------------------|------------------|
| 1. | Diagrammatic representation of data: Star and Age-sex pyramid diagram, pie diagram | 06 | BM |
| 2. | Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method. | 06 | KG |
| 3 | Contouring by Dumpy Level and Prismatic Compass | 06 | MM |
| 4 | Determination of Height of objects using Transit Theodolite (Accessible and Inaccessible bases) | 06 | MM |

MODULE FOR CC+ GE

GEOGRAPHY (GENERAL)

CC1 Geomorphology and Cartography

| SL NO | TOPICS | SUB-TOPICS | NO. OF LECTURES | NAME OF TEACHERS |
|--------|--|------------|-----------------|------------------|
| UNIT 1 | GEOTECTONICS AND GEOMORPHOLOGY | | | |
| 1. | Weathering: Types and related landforms. | | 6 | BM |
| 2. | Lithosphere – Internal Structure of Earth based on Seismic Evidence, | | 6 | MM |
| 3. | Plate Tectonics and its associated landforms | | 6 | MM |
| 4. | Landform development in arid regions | | 6 | KG |
| 5. | Landform development in glaciated regions. | | 6 | KG |
| 6. | Development of fluvial landforms | | 6 | BM |
| 7. | Fluvial Cycle of Erosion – Davis and Penck | | 6 | MM |
| 8. | Hydrological Cycle and ground water. | | 6 | KP |
| | | | | |
| UNIT 2 | SCALE AND CARTOGRAPHY | | | |
| 1 | Linear and Comparative scale | | 6 | MM |
| 2. | Proportional diagrams: Circles and squares | | 6 | KG |
| 3. | Composite bar diagram and age-sex pyramid. | | 6 | KG |
| 4. | Taylor's Climograph and Hythergraph | | 6 | BM |

MODULE FOR CC+ GE

GEOGRAPHY (GENERAL)

CC2 Climatology, Soil, Biogeography and Surveying

| SL NO | TOPICS | NO. OF LECTURES | NAME OF TEACHERS |
|--------|--|-----------------|------------------|
| UNIT 1 | Climatology, Soil and Biogeography | | |
| 1. | Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere | 6 | BM |
| 2. | Horizontal and vertical distribution of temperature | 6 | BM |
| 3. | Forms of precipitation and types of rainfall | 6 | KP |
| 4. | Tropical and Temperate Cyclones, Climatic Classification (Koppen) | 6 | KP |
| 5. | Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH) | 6 | KG |
| 6. | Soil forming factors. Soil formation (Podzol and Laterite) | 6 | KG |
| 7. | Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem.Environment, Ecotone, Communities, Habitats and Biotopes | 6 | KG |
| 8. | Biomes: Rainforest and Temperate Grassland | 6 | MM |
| | | | |
| UNIT 2 | Surveying and Levelling | | |
| 1 | Definition and classification of surveying | 6 | MM |
| 2. | Plane table survey by radiation method | 6 | BM |
| 3. | Open and close traversing by Prismatic Compass | 6 | MM |
| 4. | Drawing of longitudinal profile by Dumpy level | 6 | MM |