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B.A. (Geography) Course Structure Under CBCS

SEMESTER-I

Paper – I : Physical Geography

Course No : GEOG-101

2. Insolation and Temperature Distribution; Pressure and Wind; General Circulation of the Atmosphere; Tropical and Extra-Tropical Cyclones.
3. Rocks and Minerals– Origin and Composition; Forces - Endogenetic and Exogentic; Interior of the Earth; Isostasy; Earthquake and Volcanoes
4. Surface Configuration of the Ocean Floor; Temperature Distribution - Vertical and Horizontal; Tides and Oceanic Currents; Distribution of Ocean Salinity.
5. Basic Concepts in Hydrology - Precipitation, evaporation, evapo-transpiration, infiltration, groundwater, run off; Hydrological Cycle.

Suggested Readings:

SEMESTER-II

Paper – II : Human Geography

Course No : GEOG-201

1. Introduction: Defining Human Geography; Major Themes: Man - Environment relationship - determinism, possibility and neo-determinism, Contemporary Relevance.
2. Space and Society: Cultural Regions; Global Distribution of Race; Religion and Language.
4. Settlements: Types of Rural Settlements; Types of Urban Settlements; Trends and Patterns of World Urbanization.
5. Human adaptation to the Environment with special reference to the Eskimos, Bushman, Masai and Gujjars.
Suggested Readings:

**SEMESTER-III**

**Paper – III : Geography of India wrt to Mizoram**

**Course No : GEOG-301**

1. Physical: Physiographic Divisions, soil and vegetation, climate (characteristics and classification)
2. Population: Distribution and growth, urbanization-pattern and growth
3. Economic: Mineral and power resources distribution of iron ore, coal, petroleum, Production and distribution of Rice, wheat and tea. Economic Region (Sengupta)
4. Social: Distribution of population by race, caste, religion, language, tribes and their correlates, Pattern of development-interstate comparison.

**Suggested Readings**


**SEMESTER-IV**

**Paper – IV : Cartographic Technique**

**Course No : GEOG-401**

1. Scales- Types and Construction of Scales – Plain, Comparative and Diagonal Scales; Reduction, Enlargement and Combination of Map
3. Maps – Classification and Types; Map Projections – Classification, Properties and Uses; Graphical Construction of Polar Zenithal Stereographic, Bonne’s and Mercator’s Projections.
5. Conventional signs and symbols; Interpretation of Topographical Maps in respect to Relief, Drainage, Vegetation, Transportation and Settlement.

Suggested Readings

SEMESTER-V

Paper – V : Geographical Thought
Course No : GEOG-501
1. Pre-Modern – Early Origins of Geographical Thinking with reference to the Classical and Medieval Philosophies.
4. Debates – Environmental Determinism and Possibilism; Systematic and Regional, Idiographic and Nomothetic; Paradigms in Geography.
5. Trends – Quantitative Revolution and its Impact; Behavioural geography; Systems Approach; Radical geography; Feminist geography; Post Modern geography.

Suggested Readings:
Paper – VI : Economic Geography

Course No : GEOG-502

1. Introduction: Concept and classification of economic activity; Characteristics of Developed and Developing Countries.
2. Primary Activities: Subsistence and Commercial agriculture, forestry, fishing and mining.
3. Secondary Activities: Manufacturing (Cotton Textile, Iron and Steel), Concept of Manufacturing Regions, Special Economic Zones and Technology Parks.
5. Factors Affecting location of Economic Activity with special reference to Agriculture, Industry and Services, Location Theories – Weber’s and Christaller’s;

Suggested Readings:

Paper –VII : Surveying & Statistical Techniques

Course No : GEOG-503

A. Surveying
1. Chain and Tape; Dumpy Level.
2. Surveying by Plane Table (intersection and radial methods, plotting and interpretation of the surveyed map)
3. Prismatic Survey; Preparation and Analysis of Slope Map (Wentworth’s Method); Drainage Density and Drainage Frequency.

B. Statistics
4. Scales of Measurement; Tabulation and Descriptive Statistics; Frequency Distribution; Measures of Central Tendency (Mean, Median and Mode).
5. Measures of Dispersion (Standard Deviation, Variance and Coefficient of Variation); Sampling: Purposive, Random, Systematic and Stratified.

Class Record for Statistics:
Each student will submit a record containing five exercises:
1. Construct a data matrix of about (10 x 10) with each row representing an areal unit (districts or villages or towns) and about 10 columns of relevant attributes of the areal units.
2. Based on the above table, a frequency table, measures of central tendency and dispersion would be computed and interpreted for any two attributes.
3. Histograms and frequency curve would be prepared on the entire data set and interpreted for one or two variables.

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4. From the data matrix a sample set (20%) would be drawn using, random, systematic, and stratified methods of sampling and locate the samples on a map with a short note on methods used.
5. Based on the sample set and using two relevant attributes, coefficient of correlation would be computed and a scatter and regression line would be plotted with a short interpretation.

**Suggested Readings:**

**Paper – VIII : Population Geography**

**Course No : GEOG-504A**
1. Defining the Field – Nature and Scope; Sources of Data with special reference to India (Census, Vital Statistics and NSS).
4. Population Composition and Characteristics – Age-Sex Composition; Rural and Urban Composition; Literacy.
5. Contemporary Issues – Ageing; Sex Ratio; HIV/AIDS.

**Suggested Readings:**
Paper – IX : Agricultural Geography

Course No : GEOG-504B
1. Nature and scope of Agricultural geography; Approaches to the study of agricultural geography: environment, economic, ecological and systematic approaches; Origin and dispersal of agriculture.
2. Determinants of Agriculture- Physical, Socio-economic, Technological and Institutional.
3. Agricultural Systems of the World (Whittlesey’s classification); Agricultural Land use model (Von Thunen - its modification and relevance), Sinclair’s Model.
4. Agricultural regionalization: Agro-climatic regions of India, Agricultural regions of India, Agricultural productivity and efficiency region wrt India.
5. Green Revolution in India-Its socio-economic and ecological implications.

Suggested Readings:

SEMESTER-VI

Paper – X : Geomorphology

Course No : GEOG-601
1. Nature and scope of Geomorphology; Fundamental concepts related to – uniformitarianism, process, climate, slope of time (based on Thornbury); Modern trends in Geomorphology.
2. Earth movements: Endogenetic movements; Diastrophism, Epeirogenetic movement; Orogenetic movements; Broad warps, folds and faults; Plate tectonics.
3. Geomorphic process: weathering, mass wasting; Cycle of erosion-Davis and Penck.
4. Fluvial, Glacial and Periglacial Landforms.
5. Aeolian and Coastal Landforms; Karst Topography.

Suggested Readings:
Paper – XI: Remote Sensing & Geographical Information System

Course No : GEOG-602

1. Aerial Photography: Definition, Types and Geometry of Aerial photographs.
2. Satellite Remote Sensing: Principles and Components; Types of Platforms and Sensors; EMR interaction with atmosphere; Satellites (LANDSAT and IRS).
3. Geographical Information System: Definition, Concepts and Components; Types of data (Spatial and Non-spatial); Data models (Raster and Vector).
4. Image Processing and Data analysis: Pre-processing (Radiometric and Geometric Correction), Enhancement (Filtering), Classification (Supervised and Unsupervised); Geo-referencing; Editing and Output; Overlays.
5. Application of Remote sensing and GIS: Interpretation of Land Use and Land Cover; Urban Sprawl Analysis; Forest Monitoring.

Practical Record

(a) Two (2) exercises will be done from aerial photos and satellite images (Scale, Orientation and Interpretation)

(b) Three (3) exercises in GIS including (i) Image rectification, (ii) Identification of point, linear and aerial features and (iii) Supervised and Unsupervised classification) should be done by using GIS software.

Suggested Readings:


Paper – XII (Practical) : Project Work

Course No : GEOG-603

1. Field Work in Geographical Studies – Role, Value and Ethics of Field-Work
2. Defining the Field and Identifying the Case Study – Rural / Urban / Physical / Human / Environmental.
3. Field Techniques – Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non-Participant), Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch).
4. Use of Field Tools – Collection of Material for Physical and Socio-Economic Surveys.
5. Designing the Field Report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report.

Practical Record
1. Each student will prepare an individual report based on primary and secondary data collected during field work.
2. The students / teachers can opt to take students in or outside Mizoram, depending upon the problem to be studied.
3. The duration of the field work should not exceed 10 days.
4. The word count of the report should be about 8000 to 12,000 excluding figures, tables, photographs, maps, references and appendices.

Suggested Readings:

Paper – XII!: Urban Geography
Course No: GEOG-604A
1. Urban geography: Introduction, nature and scope; history of urbanization.
2. Patterns of Urbanisation in developed and developing countries.
5. Urban Issues: problems of land-use, housing, slums, and civic amenities (water and transport): Case studies of Delhi, Mumbai, and Aizawl.

Suggested Readings:
Paper – XIV : Political Geography

Course No : GEOG-604B

1. Understanding Politics, Geography and Political Geography; Development of Political Geography as a discipline; Concept of Nation, Elements of State and Emergence of Nation-State.
2. Geopolitics; Theories (Heartland and Rimland); Geopolitical concepts of Buffer states, Land Lock and Core and Periphery; Boundaries and Frontiers: Types of Boundaries.
3. Electoral Geography – Geography of Voting, Geographic Influences on voting pattern, Geography of Representation, Gerrymandering.
4. Political Geography of Resource Conflicts: Interstate Water disputes, Forest Right and Minerals;

Suggested Readings: