B.A. (HONOURS) GEOGRAPHY

(Three Year Full Time Programme)

COURSE CONTENTS

(Effective from the Academic Year 2011-2012 onwards)

DEPARTMENT OF GEOGRAPHY
UNIVERSITY OF DELHI
DELHI - 110007
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<td>Paper 505: Bio Geography* (Optional)</td>
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<td>Paper 601: Disaster Management</td>
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<td>Paper 602: Regional Planning: Case Studies</td>
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<td>Paper 603: Geographical Information System</td>
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<td>Paper 604: Geography of Tourism* (Optional)</td>
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<td>Paper 605: Contemporary Environmental Issues* (Optional)</td>
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<td>Paper 606: Rural Development* (Optional)</td>
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**SEMESTER BASED UNDER-GRADUATE HONOURS COURSES**

**Distribution of Marks & Teaching Hours**

The Semester-wise distribution of papers for the B.A. (Honours), B.Com. (Honours), B. Com., B.Sc. (Honours) Statistics and B.Sc. (Honours) Computer Science will be as follows:

<table>
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<tr>
<th>Type of Paper</th>
<th>Max. Marks</th>
<th>Theory Exam.</th>
<th>I.A.</th>
<th>Teaching per week</th>
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<tr>
<td>Main Papers</td>
<td>100</td>
<td>75</td>
<td>25</td>
<td>5 Lectures</td>
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<td>Concurrent Courses</td>
<td>100</td>
<td>75</td>
<td>25</td>
<td>4 Lectures</td>
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<td>1 Tutorial</td>
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<tr>
<td>Credit Courses for B.Sc.(Hons.) Maths</td>
<td>100</td>
<td>75</td>
<td>25</td>
<td>4 Lectures</td>
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<td>1 Tutorial</td>
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- Size of the Tutorial Group will be in accordance with the existing norms.
- The existing syllabi of all Concurrent/Credit Courses shall remain unchanged.
- The existing criteria for opting for the Concurrent /Credit Courses shall also remain unchanged.
Course Outline

2. Earth: Interior Structure and Isostasy.
5. Evolution of Landforms: Fluvial (Waterfalls, Floodplains and Delta), Karst (Caverns and their Deposits), Aeolian (Blowouts and Sand-dunes), Glacial (Cirques and Moraines), and Coastal (Sea Cliffs and Beaches).

Reading List


Hindi Reading List

Course Outline

1. Atmospheric Composition and Structure – Variation with Altitude, Latitude and Season.

Reading List


Hindi Reading List

Course Outline

2. Scales – Concept and application; Graphical Construction of Plain, Comparative and Diagonal Scales.
4. Topographical Map – Interpretation of a Mountain area with the help of Cross and Longitudinal Profiles.
5. Slope Analysis – Wentworth’s method.

Practical Record: A Project File in pencil, comprising one exercise each, on scale, map projection, interpretation of topographic sheet and slope analysis.

Reading List


Hindi Reading List

3 Singh, R L & Dutta, P K, PrayogatmakBhugol, Central Book Depot, Allahabad
PAPER 104  GEOGRAPHY OF POPULATION

Course Outline

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 of Population; Declining Sex Ratio; HIV/AIDS.

Reading List


Hindi Reading List

2. Maurya S D, Jansankya Bhugol, Sharda Putak Bhawan, Allahabad
PAPER – 105

CONCURRENT – QUALIFYING LANGUAGE
Course Outline

1. Rock – Characteristics and Classification.
2. Drainage Basin Morphometry – Drainage Types and Patterns, Stream Orders, Bifurcation Ratio, Stream Frequency, Relief Ratio, Drainage Texture, Drainage Density, Overland Flow, and Runoff.
3. Slope Types and Analysis – Hypsometric Curve and River Profiles.
4. Climatic Data – Weather Chart Analysis, Climatic Classification (Koppen).
5. Soil Characteristics and Universal Soil Loss Equation.

Reading List


Hindi Reading List

Course Outline

1. Ocean Floor Topography – Indian, Atlantic and Pacific Oceans.
2. Ocean Salinity and Temperature – Distribution and Determinants.

Reading List


Hindi Reading List:
Course Outline

1. Maps – Classification and Types; Principles of Map Design.
3. Thematic Mapping Techniques – Properties, Uses and Limitations; Areal Data -- Choropleth, Dot, Proportional Circles; Point Data – Isopleths.
5. Thematic Maps – Preparation and Interpretation.

Practical Record: A Thematic Atlas with ink should be prepared on a specific theme with five plates for at least ten districts of any state in India.

Reading List


Hindi Reading List

2. Maps and Diagrams (Hindi Translation), M P Hindi Directorate, Bhopal
Course Outline

1. Introduction: Nature and Scope; Basic Concepts: Rural and Urban Settlements, Hamlet, Village, Town, City, Metropolis, Megalopolis, Conurbation, Rural-Urban Fringe.
2. Rural Settlements: Types and Patterns, Determinants.
3. Regional Settlement Hierarchy: Central Place Theory, Rank-Size Rule, Primate City.

Reading List

PAPER 205

CONCURRENT - CREDIT LANGUAGE
SEMESTER 3

PAPER 301  ECONOMIC GEOGRAPHY

Course Outline

1. Introduction: Concept and classification of economic activity
2. Factors Affecting location of Economic Activity with special reference to Agriculture, Industry and Services (Weber’s theory*)
3. Primary Activities: Subsistence and Commercial agriculture, forestry, fishing and mining.
4. Secondary Activities: Manufacturing (Cotton Textile, Iron and Steel), Concept of Manufacturing Regions, Special Economic Zones and Technology Parks.

* (theories relating to agriculture and services have been dealt in other papers)

Reading List

Course Outline

1. Environmental Geography – Concept and Scope
2. Human-Environment Relationships – Historical Progression, Adaptation
3. Ecosystem – Concept, Structure and Functions
4. Environmental Problems in Tropical, Temperate and Polar Ecosystems
5. Environmental Programmes and Policies – Global, National and Local levels

Reading List


Hindi Reading List

Course Outline

4. Image Processing (Digital and Manual): Pre-processing (Radiometric and Geometric Correction), Enhancement (Filtering); Classification (Supervised and Un-supervised)
5. Interpretation and Application of Remote Sensing: Land use/ Land Cover.

Practical Record: A project file consisting of five exercises will be done from aerial photos and satellite images (scale, orientation and interpretation)

Reading List

Course Outline

1. Urban geography: Introduction, nature and scope; history of urbanisation
2. Patterns of Urbanisation in developed and developing countries
3. Functional classification of cities: Quantitative and Qualitative Methods
4. Urban Issues: problems of housing, slums, civic amenities (water and transport)
5. Case studies of Delhi, Mumbai, Kolkata and Chennai with reference to Urban Issues

Reading List

PAPER 305

CONCURRENT - INTERDISCIPLINARY
SEMESTER 4

PAPER 401  GEOGRAPHY OF NATURAL RESOURCES

Course Outline

1. Natural Resource: Concept, Classification and Techniques

2. Distribution, Utilisation, Problems and Management of:
   (a) Land Resources and (b) Water Resources
   (c) Forests and (d) Energy Resources

3. Appraisal and Conservation and Natural Resources

Reading List

Course Outline

1. Introduction: Changing Concept of Development, Efficiency-Equity Debate

2. Measuring development: Indicators (Economic, Social and Environmental)

3. Theories of Development: Myrdal, Hirschman, Rostow and Friedmann, Concept of underdevelopment

4. Global Pattern of Development: inter-regional variations


Reading List

Course Outline

1. Use of Data in Geography: Geographical Data Matrix, Significance of Statistical Methods in Geography; Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval, Ratio).
2. Tabulation and Descriptive Statistics: Frequencies (Deciles, Quartiles), Cross Tabulation, Central Tendency (Mean, Median and Mode, Centro-graphic Techniques, Dispersion (Standard Deviation, Variance and Coefficient of Variation).
5. Association and Correlation: Rank Correlation, Product Moment Correlation, and Simple Regression, Residuals from regression

Practical Record: Each student will submit a record containing five exercises:

1. Construct a data matrix of about (100 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 attempt to fit a normal curve and interpreted for one or two variables.
4. From the data matrix a sample set (20 Percent) 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 of the sample set and using two relevant attributes, a scatter and regression line would be plotted and residual from regression would be mapped with a short interpretation.

Reading List

Course Outline

1. Physical: Relief and drainage systems, soil and vegetation, climate (characteristics and classification)
2. Population: Distribution and growth
3. Economic: Mineral and power resources distribution and utilisation of iron ore, coal, petroleum, gas; agricultural production and distribution of rice and wheat, industrial development: automobile and Information technology
4. Social: Distribution of population by race, caste, religion, language, tribes and their correlates
5. Regionalisation of India: Physiographic (Spate and R. L. Singh), Socio – cultural (Sopher and A. Ahmed), Economic (Sengupta)

Reading List

PAPER 405

CONCURRENT – DISCIPLINE CENTERED I
SEMESTER 5

PAPER 501 EVOLUTION OF GEOGRAPHICAL THOUGHT

Course Outline

1. Pre-Modern – Early Origins of Geographical Thinking with reference to the Classical and Medieval Philosophies.
2. Modern – Evolution of Geographical Thinking and Disciplinary Trends in Germany, France, Britain, United States of America and India.
5. Towards Post Modernism – Changing Concept of Space in Geography, Future of Geography

Reading List

Course Outline

2. Concept of Social Space: First, Second and third Space.
3. Social Categories: Defining Caste, Class, Religion, Ethnicity and Gender and their Spatial Underpinnings
5. Social Geographies of Inclusion and Exclusion, Slums, Gated Communities, Communal Conflicts and Crime.

Reading List

Course Outline

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 the NCR, depending upon, 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.
5. One copy of the report on A 4 size paper should be submitted in soft binding.

Reading List

Course Outline

2. Determinants of Agriculture: Physical, Technological and Institutional
3. Agricultural Regions: Agroclimatic, Agroecological & Crop Combination Regions.
5. Agricultural Land use model of Von Thuenen, modification and relevance.

Reading List

Course Outline

1. Defining the Field – Concept, And Relevance
2. Evolution of Plants and Animals – Adaptation, Dispersal, Colonization and Extinction.
3. Factors Affecting the Community – Plant Succession, Arresting Factors, Vegetation Climax

Reading List

Course Outline

2. State, Nation and Nation State – Concept of Nation and State, Attributes of State – Frontiers, Borders, Shape, Size, Territory and Sovereignty, Concept of Nation State.
3. Electoral Geography – Geography of Voting, Geographic Influences on Voting pattern, Geography of Representation, Gerrymandering.
4. Political Geography of Resource Conflicts – Water Sharing Disputes, Disputes and Conflicts Related to Forest Rights and Minerals, issues of land locked states in Asia and Africa
5. Politics of Displacement: Issues of relief, compensation and rehabilitation: with reference to Dams and Special Economic Zones

Reading List

SEMESTER 6

PAPER 601  DISASTER MANAGEMENT

Course Outline

1. Disasters – Definition, Classification and related concepts of Hazard and Risk.
2. Impact of Disasters: Case Studies from Developed and Developing Countries.
3. Vulnerability to Disasters – Concept and Dimension.
5. Disaster Management – Mitigation and Preparedness.

Reading List

Course Outline

1. Introduction: Concept of Region, Regional Disparities, Need for Regional Planning,
2. Regional Planning in India: Regional Approach to Planning in India’s Five Year Plans; Experience of Regional Planning in India: Multi-Level Planning (State, District and Block level Planning)
3. Regions for Planning (identification, characteristics, problems and policies): Case Studies of:
   b. Hill Area Development Plan: Western Ghats and Himalaya
   c. Metropolitan Regional Plan: National Capital Region.

Reading List

Course Outline

3. GIS Data Structures – Types (spatial and non-spatial), Point, Line and Area; Raster and Vector Data Structure.
4. GIS Data Analysis – Input, Editing and Output; Overlays.

Practical Record: A project file consisting of 5 exercises on GIS and GPS application using any GIS Software.

Reading List

Course Outline

1. Scope and Nature – Concepts and Issues, Types of Tourists (Visitor, Traveller, and Excursionist–Definition and differentiation); Tourism, recreation and leisure, their inter-relationships
2. International and Domestic Tourism – Recent Trends
3. Type of Tourism: Nature tourism, Heritage Tourism, Medical Tourism, Pilgrimage
4. Impact of Tourism: On Economy, Environment and Society; Concept of Ecotourism
5. Tourism Infrastructure – Transport, Facilitations and Hospitality Industry

Reading List

2. Bhardwaj et. al. (eds.): *International Tourism: Issues and Challenges*, Kanishka New Delhi
Course Outline:

4. Waste Disposal and Pollution: Problems of Mega Cities
5. Deforestation and Extinction: Extent and Magnitude

Reading List:

Course Outline

2. Rural Economic Base: Agriculture and Allied Sectors, Seasonality and Need for Expanding Non-Farm Activities
3. Area Based Approach to Rural Development: Green Revolution, Drought Prone Area Programmes, PMGSY.
5. Provision of Services – Physical and Socio-Economic Access to Elementary Education and Primary Health Care and Micro credit

Reading List

PAPER 607

CONCURRENT – DISCIPLINE CENTERED II