## Choice Base Credit System

### B.A./B.Sc. Geography

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<tr>
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<th>CORE COURSE (12)</th>
<th>Ability Enhancement Compulsory Course (AECC) (2)</th>
<th>Skill Enhancement Course (SEC) (2)</th>
<th>Discipline Specific Elective DSE (4)</th>
<th>Generic Elective GE (2)</th>
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<td>English/MIL-2</td>
<td>Remote Sensing and GPS based Project Report</td>
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<td>Environmental Geography</td>
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<td>GIS based Project Report (Practical)</td>
<td>Geography of India or Economic Geography</td>
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<td>VI</td>
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<td>Field Techniques and Survey based Project Report (Practical)</td>
<td>Disaster Management or Geography of Tourism</td>
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<td>GE-2</td>
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**Note:**

1. Practical paper will not have tutorials.
B.A./B.Sc. Geography

Core Course (4 Compulsory Papers)
Semester I
  1. Physical Geography
Semester II
  2. Human Geography
Semester III
  3. General Cartography (Practical)
Semester IV
  4. Environmental Geography

Skill Enhancement Course (2 Compulsory Papers)
Semester III
  1. Regional Planning and Development
Semester IV
  2. Remote Sensing and GPS based Project Report
Semester V
  3. GIS based Project Report (Practical)
Semester VI
  4. Field Techniques and Survey based Project Report (Practical)

Discipline Specific Elective Papers (2 Compulsory Papers)
Semester V
  1. Geography of India
  2. Economic Geography
Semester VI
  3. Disaster Management
  4. Geography of Tourism

Generic Elective (2)
Semester V
  1. Disaster Risk Reduction
Semester VI
  2. Sustainability and Development
B.A./B.Sc. Geography

Core Courses

1. Physical Geography

   1. Physical Geography – Definition and Scope, Components of Earth System.
   3. Lithosphere – Internal Structure of Earth based on Seismic Evidence, Plate Tectonics and its Associated Features.

Reading List

2. Human Geography

2. Space and Society: Cultural Regions; Race; Religion and Language
4. World Population Distribution and Composition (Age, Gender and Literacy).
5. Settlements: Types and Patterns of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization

Reading List
3. General Cartography (Practical)

1. Maps – Types, Elements and Uses
2. Map Scale – Types and Application, Reading Distances on a Map.

Note: This paper is not a practical paper, and the objective is to give basic information about various tools and techniques used in making maps. Students will not be involved in any laboratory work or hands on exercises, though a few demonstrations in the laboratories by teachers are recommended.

Reading List
4. Environmental Geography

1. Environmental Geography: Concepts and Approaches; Ecosystem – Concept and Structure; Ecosystem Functions.
2. Human-Environment Relationship in Equatorial, Desert, Mountain and Coastal Regions.
   1. Environmental Problems and Management: Air Pollution; Biodiversity Loss; Solid and Liquid Waste.
   2. Environmental Programmes and Policies: Developed Countries; Developing Countries.
   3. New Environmental Policy of India; Government Initiatives.

Reading List

Skill Enhancement Course (2 Compulsory Papers)

1. Regional Planning and Development

   1. Concept, Need and Types of regional Planning.
   2. Characteristics and Delineation of Planning Region.
   3. Regionalization of India for Planning (Agro Ecological Zones).
   5. Backward Regions and Regional Plans- Special Area Development Plans in India; DVC-The Success Story and the Failures; NITI Aayog.

Reading List

2. Remote Sensing and GPS based Project Report (Practical)

5. Global Positioning System (GPS) – Principles and Uses

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

Reading List

3. GIS based Project Report (Practical)

2. GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure.
3. GIS Data Analysis: Input; Geo-Referencing; Editing and Output; Overlays.
5. Application of GIS in Urban Sprawl and Forests Monitoring

**Practical Record:** A project file consisting of 5 exercises on using any GIS Software on above mentioned themes.

**Reading List**

4. Field Techniques and Survey based Project Report

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).
4. Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch).
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 duration of the field work should not exceed 10 days.
3. The word count of the report should be about **8000 to 12,000** excluding figures, tables, photographs, maps, references and appendices.
4. One copy of the report on A 4 size paper should be submitted in soft binding.

Reading List

Discipline Specific Elective Papers (2 Compulsory Papers)

1. Geography of India

1. Physical Setting – Location, Structure and Relief, Drainage, Climate.
4. Resource Base – Livestock (cattle and fisheries), Power (coal, and hydroelectricity), Minerals (iron ore and bauxite).
5. Economy – Agriculture (Rice, Wheat, Sugarcane, Groundnut, Cotton); Industries (Cotton Textile, Iron-Steel, Automobile), Transportation Modes (Road and Rail).

Reading List

2. Economic Geography

1. Definition, Approaches and Fundamental Concepts of Economic Geography; Patterns of Development.
2. Locational Theories – Agriculture (Von Thunen) and Industrial (Weber).
3. Primary Activities – Intensive Subsistence Farming, Commercial Grain Farming, Plantation, Commercial Dairy Farming, Commercial Fishing, and Mining (iron ore, coal and petroleum).
5. Tertiary and Quaternary Activities – Modes of Transportation, Patterns of International Trade, and Information and Communication Technology Industry.

Reading List

3. Disaster Management

5. Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do’s and Don’ts During Disasters

Reading List

4. **Geography of Tourism**

1. Concepts, Nature and Scope; Inter-Relationships of Tourism, Recreation and Leisure; Geographical Parameters of Tourism by Robinson.
2. Type of Tourism: Nature Tourism, Cultural Tourism, Medical Tourism, Pilgrimage
3. Recent Trends of Tourism: International and Regional; Domestic (India); Eco-Tourism, Sustainable Tourism, Meetings, Incentives, Conventions and Exhibitions (MICE)
4. Impact of Tourism: Economy; Environment; Society
5. Tourism in India: Tourism Infrastructure; Case Studies of Himalaya, Desert and Coastal and Heritage; National Tourism Policy

**Reading List**

6. Tourism Recreation and Research Journal, Center for Tourism Research and Development, Lucknow
Generic Elective (2)

1. **Disaster Risk Reduction**
   1. Disaster; Hazards, Risk, Vulnerability and Disasters: Definition and Concepts.
   5. Disaster Risk Reduction: Mitigation and Preparedness, NDMA and NIDM; Community-Based Disaster Management; Do’s and Don’ts During Disasters

**Reading List**
2. Sustainability and Development

1. Sustainability: Definition, Components and Sustainability for Development.
2. The Millennium Development Goals: National Strategies and International Experiences
3. Sustainable Development: Need and examples from different Ecosystems.
4. Inclusive Development: Education, Health; Climate Change: The role of higher education in sustainability; The human right to health; Poverty and disease; Sustainable Livelihood Model; Policies and Global Cooperation for Climate Change
5. Sustainable Development Policies and Programmes: Rio+20; Goal-Based Development; Financing for Sustainable Development; Principles of Good Governance; National Environmental Policy, CDM.

Reading List