



शिवाजी कॉलेज
(दिल्ली विश्वविद्यालय)
Shivaji College
(University of Delhi)



NAAC ACCREDITED "A" GRADE COLLEGE

B. A. (HONS.) GEOGRAPHY

Learning Outcomes Session 2021-22

After completion of an undergraduate course in Geography, students will be able to:

- interpret and analyze various concepts and theories.
- analyze the earth as an integrated human-environment system by examining changing interactions at different spatial and temporal scales.
- understand the subject matter of various branches of physical and human geography.
- analyze geographical data and interpret its significance within the context of human environment relations.
- communicate geographical concepts and data effectively using oral, written and visual forms.
- contribute effectively to finding innovative solutions to human-environment problems. Investigate complex real world challenges using appropriate concepts, methods, and tools from one or more geographical sub-disciplines.
- explain the societal relevance of geographical knowledge and apply it to real world human–environmental issues.

Students of B.A (Hons/Prog) Geography will learn to use scientific logic as they explore a wide range of contemporary subjects spanning various aspects of Physical, Human, Regional, Environmental, Economic, Cartographic aspects of Geography. Students of B.A (Hons/Prog) Geography will be informed citizens who can understand and evaluate the impact of new research discoveries in Geographical subfields and will be able to pursue a wide range of careers as teachers, cartographers, technical assistants, GIS Analysts, demographers, travel & tourism planners, statistical analysts, product sale executives, town planners, regional planners, community development scientists, GIS experts, teachers/researchers and civil servants.

Semester I

1. Geomorphology

- a) Understand the functioning of Earth systems in real time and analyze how the natural and anthropogenic operating factors affects the development of landforms
- b) Distinguish between the mechanisms that control these processes
- c) Assess the roles of structure, stage and time in shaping the landforms, interpret geomorphological maps and apply the knowledge in geographical research.

2. Cartographic Techniques (Practical)

- a) Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
- b) Recognize the benefits and limitations of some common map projections and their use.

- c) Understand and perform interpretation of topographical maps and weather maps.

GENERIC ELECTIVE COURSES

1. Disaster Management

- a) In depth understanding about the various disasters in the country.
- b) It will provide thorough understanding about the human responses to the disasters.
- c) It will highlight the responses and mitigation measures to both natural and manmade disasters.

Semester II

3. Human Geography

- a) Detailed exposure of contemporary relevance of cultural landscape.
- b) In-depth knowledge of space and society of cultural regions.
- c) Understanding the settlement pattern and population resource relationship.

4. Thematic Cartography (Practical)

- a) Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
- b) Recognize the benefits and limitations of Diagrammatic Data Presentation.
- c) Understand and perform interpretation of thematic maps.

GENERIC ELECTIVE COURSES

2. Spatial Information Technology

- a) Will be familiar with the concept, components of SIT.
- b) Will gained knowledge on various data sources, structures, and their interpolation and modeling.
- c) Will acquire in-depth knowledge of various functions applied in SIT.
- d) will gather detailed information on the application of SIT in various fields of mapping

Semester III

5. Climatology

- a) Detailed exposure of climatology and oceanic relief features.
- b) In-depth knowledge of upper atmospheric conditions and cyclonic features.
- c) Understanding the characteristics of climatic regions.

6. Statistical Methods in Geography (Practical)

- a) To differentiate between qualitative and quantitative information.
- b) To know the nature of various data , different sources and methods of data collection.
- c) To apply sampling methods for data collection.
- d) To classify, summarize and produce various types of data tabulations.
- e) To present data through graphical and diagrammatic formats.
- f) To apply different forms of averages, their relevance on descriptive data and geographical descriptive data as well.
- g) To analyze the variations in spatial and non-spatial data.
- h) To study the associations and cause/effect or impact from the data series
- i) To use the concept of probability mainly the normal distribution.

7. Geography of India

- a) Detailed exposure to the human and physical features of India.
- b) In-depth knowledge of different resource base of India.
- c) Understanding socio-cultural base of India.

GENERIC ELECTIVE COURSES

3. Climate Change Vulnerability and Adaptation

- a) Detailed exposure of climate change and related issues.
- b) In-depth knowledge of vulnerability of flora and fauna.
- c) Understanding the impact of climate change and its planning.

SKILL ENHANCEMENT COURSES

1. Geographical Information System (Practical)

- a) Develop basic understanding and hands-on on GIS software and GPS ;
- b) Understand GIS Data Structures and GIS Data Analysis ;
- c) Apply GIS for natural resource management, urban and land use land cover study;

Semester IV

8. Economic Geography

- a) Distinguish to different types of economic activities and their utilities.
- b) Appreciate the factors responsible for the location and distribution of activities.
- c) Examine the significance and relevance of theories in relation to the location of different economic activities

9. Environmental Geography

- a) Detailed exposure of human – environment relationship.
- b) In-depth knowledge of environmental issues in tropical, temperate and polar ecosystems.
- c) Understanding the environmental programmes and policies at local as well as global level.

10. Field Work and Research Methodology (Practical)

- a) Detailed exposure of new geographical landscape as study area.
- b) In-depth knowledge of different field techniques.
- c) Understanding the field ethics and different tools of field study.

GENERIC ELECTIVE COURSES

4. Sustainable Resource Development

- a) Understand the basic concept of sustainable resource development and differentiate between the Millennium development goals and Sustainable development goals.
- b) Assess the issues associated with the Inclusive Development.
- c) Explain the sustainable development policies and programmes.

SKILL ENHANCEMENT COURSES

2. Introduction to GIScience (Practical)

- a) Trace and know evolution of GIS and GIScience and roles of various intuitions in data sharing ;
- b) Perform preparing different maps integrating spatial and no-spatial data;
- c) Professionally do interpretations and analysis of land use land cover maps;

Semester V

11. Regional Planning and Development

- a) Conceptualize the Regional Planning and its theories.
- b) Get the overview of Sustainable Regional Development.
- c) Have sound knowledge to Sustainable Development Policies and Programmes.

12. Remote Sensing and GIS (Practical)

- a) Explain principles of remote sensing, different satellite systems and sensors;
- b) Perform image pre-processing, enhancement and classification and interpretation of satellite images;
- c) Apply Image preprocessing for land use land cover and urban studies;

DISCIPLINE CENTRIC ELECTIVES

1. Hydrology and Soil Studies

- a) Understand the basic components of hydrological cycle and learn best practices of integrated watershed management,
- b) Explain various components of water balance and management of river basins,
- c) Identify different types of soil, distribution and management of soil resources.

2 Agriculture and Food Security

- a) Conceptualize the agriculture and its determinants.
- b) Get the overview of Indian and World agriculture regions and systems.
- c) Have sound knowledge of agriculture revolutions and food security

Semester VI

13. Evolution of Geographical Thought

- a) In depth understanding about the evolution of geographical thought
- b) Detailed knowledge about the paradigms and debates in the geographical studies.
- c) Understanding of recent traditions in geography

14. Disaster Management based Project Work (Practical

- a) In depth understanding about the various disasters in the country
- b) It will provide thorough understanding about the human responses to the disasters
- c) It will give an in-depth knowledge about the disasters cases through fieldworks

DISCIPLINE CENTRIC ELECTIVES

6. Introduction to Political Geography

- a) Learn the concept of nation and state and geopolitical theories.
- b) Understand the different dimensions of electoral geography and resource conflicts.
- c) Have sound knowledge of politics of displacement, focusing on dams and SEZ

8. Geography of Social Wellbeing

- a) Get Knowledge of the geography of social well-being and social diversity.
- b) Appraise the key concepts of social geography in regional context; geographic factors underlying patterns of social well-being and inclusive development.
- c) Explain the social problems and the welfare programs and policies.

B.A (Programme) Geography Discipline --- LOCF

Semester I

1. Physical Geography

- a. This paper shall enable the students to understand the basic concepts, definition and scope of physical geography.
- b. This course shall enable the students to comprehend the dynamics of atmosphere, lithosphere and fluvial erosion cycle.
- c. Students shall be well-versed with hydrological processes, ocean bottom relief, tides and currents.

Semester II

2. Human Geography

- a. This paper shall enable the students to understand the basic concepts, nature and relevance of human geography.
- b. This course shall enable the students to appreciate the interrelationships between space and society, characteristics of cultural regions, race, religion and language.
- c. Students shall be well-versed with the world population growth patterns, demographic transition theory, settlement patterns and urbanization process.

Semester III

3. General Cartography

- a) Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
- b) Recognize the benefits and limitations of some common map projections and their use.
- c) Understand and perform interpretation of topographical maps and weather maps.

Skill Enhancement Course

1. Regional Planning and Sustainable Development

- a. This paper shall enable the students to understand the basic concepts and types of regional planning.
- b. This course shall enable the students to analyze various characteristics and parameters used for delineating the planning regions.
- c. Students shall be well-versed with models of regional planning and appreciate the relevance of the case studies of regional planning.

Semester IV

4. Environmental Geography

- a. This paper shall enable the students to understand basic concepts and approaches related to environmental geography.

- b. This course shall enable the students to comprehend about human-environment relationship, and different environmental problems and its management.
- c. Students shall be well-versed with the analysing the environmental programmes and policies.

Skill Enhancement Course

2. Fundamentals of Remote Sensing and GPS/GNSS

- a. This paper shall enable the students to understand fundamental issues related to remote sensing, its development and types.
- b. This course shall enable the students to comprehend about aerial photography, satellite remote sensing, EMR and sensors
- c. Students shall be well-versed with the interpretation and applications of remote sensing, and GPS/GNSS.

Semester V

Discipline Specific Elective Papers (2 Compulsory Courses)

1. Geography of India

- a. This paper shall enable the students to understand the physical geography of India.
- b. This course shall enable the students to comprehend the trends and composition of population change in India.
- c. Students shall be well-versed with the existing resource base and the economic systems in India.

Generic Elective (GE)

1. Disaster Management

- a) This paper shall enable the students to understand basic concepts and issues related to disaster management.
- b) This course shall enable the students to comprehend about causes, impact, distribution and mapping of disasters in India.
- c) Students shall be well-versed with the analysing the response and mitigation of disasters.

Skill Enhancement Course

3. Field Techniques and Surveying Methods

- a. This paper shall enable the students to understand fundamental concepts and issues related to field work in geographical studies.
- b. This course shall enable the students to comprehend about field work and field techniques.
- c. Students shall be well-versed with the development of questionnaire and writing the field report.

Semester VI

Discipline Specific Elective Papers (2 Compulsory Courses)

Disaster Risk Reduction

- a. This paper shall enable the students to understand basic concepts and issues related to disaster risk reduction.
- b. This course shall enable the students to comprehend about causes, impact, distribution and mapping of disasters in India.
- c. Students shall be well-versed with the analysing the programmes and policies related to disaster risk reductions.

Generic Elective (GE)

2. Climate Change Vulnerability and Mitigation

- a) Understand basics of Science of Climate Change ;
- b) Understand different types of vulnerability ;
- c) Dwell upon the issues of adaptation and mitigation;

Skill Enhancement Course

4. Introduction to GIScience

- a) Develop basic understanding of GIScience and roles of various intuitions in data sharing
- b) Perform preparing different maps integrating spatial and no-spatial data;
- c) Learn and use GIS for natural resource management, urban and land use land cover study;