B.A. (Hons.) Geography

Learning Outcomes

DISCIPLINE SPECIFIC CORE COURSE

SEMESTER -I

DSC-1: PHYSICAL GEOGRAPHY

Learning Objectives

The Learning Objectives of this course are as follows:

- To explain the concept, definition and scope of earth systems.
- To recognize the structure of the Earth and describe its characteristic features.
- To understand the atmospheric composition and structure.

Learning outcomes

- The Learning Outcomes of this course are as follows:
- The students will be able:
- To classify earth into various domains according to its physical features.
- To differentiate between lithosphere, hydrosphere, atmosphere and biosphere, and to understand interrelationship between them.

DSC-2: HUMAN GEOGRAPHY

Learning Objectives

The Learning Objectives of this course are as follows:\

- To analyses the population growth and distribution.
- To understand various dimensions of human geography and cultural landscape.

- To understand the relationship between population and resource.

Learning outcomes

The Learning Outcomes of this course are as follows:

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

DSC-3: DIGITAL CARTOGRAPHY (PRACTICAL)

Learning Objectives

The Learning Objectives of this course are as follows:

- Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions digitally.
- Develop an understanding of the concepts regarding scale, map projections to suit map purposes digitally.
- Better understand the techniques of interpretation of topographical and weather maps through digital cartographic techniques.

Learning outcomes

The Learning Outcomes of this course are as follows:

- This is a practical hands-on course, when the students have completed this course, they are able:
- To explain how maps work, conceptually and technically and also will be able to understand the science and art of cartography through digital techniques.
- To recognize the benefits and limitations of some common map projections and their use.
- To understand and perform interpretation of topographical maps and weather maps.

SEMESTER -II

DSC-4: GEOMORPHOLOGY

Learning Objectives

The Learning Objectives of this course are as follows:

- To understand the association between geomorphologic landforms, concepts and processes.
- To critically evaluate and connect information about geomorphic processes.
- To provide a theoretical and empirical framework for understanding landscape evolution and the characteristics of individual types of geomorphic landscapes.

Learning outcomes

The Learning Outcomes of this course are as follows:

- To know the functioning of earth systems in real time and analyze how the natural and anthropogenic operating factors affects the development of landforms.
- To distinguish between the mechanisms that controls these processes.
- To assess the roles of structure, stage and time in shaping the landforms, interpret geomorphological maps and apply the knowledge in geographical research.

DSC-5: POPULATION GEOGRAPHY

Learning Objectives

The Learning Objectives of this course are as follows:

- It introduces the basic concepts of population geography to the students.
- An understanding of the importance and need of Demographic data.
- Spatial understanding of population dynamics.

Learning outcomes

The Learning Outcomes of this course are as follows:

- The students would get an understanding of the distribution and trends of population growth in the developed and less developed countries, along with population theories.
- The students would get an understanding of the dynamics of the population.
- An Understanding of the implications of population composition in different regions of the world.

DSC 6: STATISTICAL METHODS IN GEOGRAPHY (PRACTICAL)

Learning Objectives

The Learning Objectives of this course are as follows:

- The concept of quantitative information in general and Geographical data in particular. The importance of data analytics. The ways data is collected, or data is taken from different sources. The sampling methods' application for data collection purposes.
- To understand the ways to handle the collected data through classification, tabulation and stigmatization.
- To compute relations and impacts among the data series.

Learning outcomes

The Learning Outcomes of this course are as follows:

- To differentiate between qualitative and quantitative information.
- To know the nature of various data, different sources and methods of data collection.
- To present data through graphical and diagrammatic formats.
- To analyse the variations in spatial and non-spatial data.

GE: DISASTER MANAGEMENT

Learning Objectives

The Learning Objectives of this course are as follows:

- Understanding the basic concepts of disaster management.
- Detailed analysis about the different types of disasters in India. Evaluating the role of institutional frameworks to mitigate the disasters in the country.

Learning Outcomes

- The Learning Outcomes of this course are as follows:
- In depth understanding about the various disasters in the country.
- It will provide thorough understanding about the human responses to the disasters.
- It will highlight the responses and mitigation measures to both natural and manmade disasters.

SEMESTER -III

DSC 7: CLIMATOLOGY

Learning Objectives

The Learning Outcomes of this course are as follows:

- Explaining various dimensions of climatology
- Analysing atmospheric moisture along with disturbances
- An understanding world climatic regions.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Detailed exposure to climatology.
- In-depth knowledge of atmospheric moisture and cyclonic features.
- Knowledge of the mechanism of monsoon and climatic classification**.**

DSC 8: URBAN GEOGRAPHY

Learning Objectives

To familiarize student with the nature and scope of urban geography.

- To understand the morphology and hierarchy in urban system.
- To learn about the importance of urban issues in mega- cities.
- To provide knowledge about urban planning and governance.
- To make students learn about the new perspectives of futuristic cities.

Learning outcomes

- Comprehend the fundamentals of urbanization, morphology and hierarchy theories that explain the process of urban development.
- Be conversant with the morphology of Indian cities.
- Be Aware about the issues faced in mega cities.
- Have insight into the master plans, renewal plans, UN-Habitat and urban local bodies
- Explore about the concepts of new urbanism, sustainable, smart and inclusive cities.

DSC 9: FUNDAMENTALS OF REMOTE SENSING (PRACTICAL)

Learning Outcomes

The Learning Objectives of this course are as follows:

- To apprise the students with the relevance of Remote Sensing in Geography and the historical growth of Satellites in India and the world.
- To impart the knowledge of fundamentals of remote sensing and its applications.

- To facilitate the students to have hands on experience on different steps of visual interpretation of satellite images & photographs.
- To facilitate the students to have hands on experience on different steps of satellite image processing using one or more software for a geographical application.

Learning outcomes

On completion of this course, the student shall be able:

- To comprehend the concepts related to remote sensing and in understanding their relevance in geography discipline.
- To enhance their ability in describing the basic principles of image processing, visualization and analysis.
- To enrich their ability to conduct basic image processing of satellite multispectral imagery.

SEMESTER-IV

DSC 10: OCEANOGRAPHY

Learning Objectives

The Learning Objectives of this course are as follows:

- To enable the learner to understand the basics of oceanography.
- To enable the learner to explain the configuration of the ocean bottom
- To enable the learner to discuss ocean water and its unique ecosystem
- To equip the learner to appreciate and elaborate the problems and policies for sustainable oceans

Learning Outcomes

The Learning Outcomes of this course are as follows:

- The students would be able to comprehend and establish the relationship between human action and global ocean conditions. They would be able to explain the ocean as a regulator of global climate.
- Illustrate the dynamic ocean bottom topography and appreciate the circulation of cold and warm Ocean currents.
- Discuss the salinity and temperature distribution of ocean water on a three dimensional spatial perspective.
- Elaborate the marine ecosystems as well as explain the problems and address the policies to resolve them.

DSC-11: ECONOMIC GEOGRAPHY

Learning Objectives

- To evolve an understanding about the significance of space and time as attributes of human economic activities.
- To comprehend the role of geographical factors in determining the transformation of human economic activities.
- To develop an understanding of historical progression of trends and transformation of Primary, Secondary and Tertiary economic activities.

Learning Outcomes

- To enable the learner to appreciate the role of geographical parameters in determining various economic activities and to understand the scope of economic geography, differentiating it from classification of economic activities.
- To enable the learner to assess and analyse the role of space and location in pursuit of economic activities.
- To enable the learner to develop the capability of analyzing transformation of economic activities with reference to space, time and diffusion of technology.

DSC-12: FUNDAMENTALS OF GIS (PRACTICAL)

Learning Objectives:

The learning objectives of this course are as following:

- In this course the students will get the basic understanding of the concept of GIS, its definitions and components and its significance in geographical study.
- They will gain the working experience to handle digitally, both spatial and attribute geographical data, its collection, storage and management through GIS and the use of locational specific data in GIS using GPS.
- They learn the fundamental steps in data analysis and the GIS application to the geographical study of land uses, urban sprawl, and forests through the means of spatial mapping.

Learning Outcomes:

- Through this practical, hands-on course the students will be able to know the GIS basics and when completed they would be able to:
- Develop a basic understanding of GIS skills and learn to work on a GIS Software using computer/ laptop/ and or any other digital medium.
- Understand GIS Data Structures and GIS Data Analysis for geographical enquiry.

- Learn to apply basic GIS operations/skills to analyse the spatial data for mapping, monitoring and to detect both spatial and temporal changes in land use/cover, forests, urban sprawl, and natural resources.
- Students will be aware of spatial thinking and its manifestation in resolving issues through this computer-based technology.

SEMESTER-V

11. Regional Planning and Development

Learning Outcomes

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

12. Remote Sensing and GIS (Practical)

Learning Outcomes

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

SEMESTER-VI

13. Evolution of Geographical Thought

Learning Outcomes

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

14. Disaster Management based Project Work (Practical

Learning Outcomes

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 disaster scapes through fieldworks

DISCIPLINE CENTRIC ELECTIVES

1. **Hydrology and Soil Studies**

Learning Outcomes

- Understand the basic componcnts of hydro logical cycle and learn best practices of
- integrated watershed management,
- Explain various components of water balance and management of river basins,
- Identify different types of soil, distribution and management of soil resources.

2. **Agriculture and Food Security**

Learning Outcomes

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