

**DEPARTMENT OF GEOGRAPHY**  
**S.R.FATEPURIA COLLEGE**  
**COURSE & PROGRAM OUTCOMES OF**  
**GEOGRAPHY HONOURS & GENERAL (B.A. & B.SC.)**  
**UNDER CBCS**

Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across it. They also examine how human culture interacts with the natural environment and the way those locations and places can have an impact on people. Geography seeks to understand where things are found, why they are there, and how they develop and change over time. The study of the diverse environments, places, and spaces of Earth's surface and their interactions. It seeks to answer the questions of why things are as they are where they are. The modern academic discipline of geography is rooted in ancient practice, concerned with the characteristics of places, in particular their natural environments and peoples, as well as the relations between the two.

**Choice Based Credit System (CBCS): Syllabus in Geography**

**INTRODUCTION:** In compliance with recent directives from the University Grants Commission, the undergraduate syllabus for Geography is reframed into Choice Based Credit System largely following the model syllabus prepared by the West Bengal State Council of Higher Education.

The main objective of this new curriculum is to give the students a holistic understanding of the subject, putting equal weightage to the core content and techniques used in Geography. The syllabus tries to give equal importance to the two main branches of Geography: Physical and Human.

The principal goal of the syllabus is to enable the students to secure a job at the end of the undergraduate programme. Keeping this in mind and in tune with the changing nature of Geography, adequate emphasis is rendered on applied aspects of the subject such as emerging techniques of mapping and field-based data generation, especially in the honours course. The syllabus emphasizes on development of basic skills of the subject, so that everyone need not go for higher studies in search of professional engagement or employment.

**LEARNING OUTCOMES:** This syllabus is designed to impart basic knowledge on geography as a spatial science and train the undergraduates to secure employment in the sectors of geospatial analysis, development and planning, mapping and surveying.

## **HONOURS COURSE: CORE SUBJECTS**

- GEO/H/CC/01 /TH/P – Geotectonic and Geomorphology**  
**GEO/H/CC/02/TH/P – Cartographic Techniques and Geological map study**  
**GEO/H/CC/03/TH/P – Human Geography**  
**GEO/H/CC/04/TH/P – Cartograms, Thematic Mapping  
& Surveying**  
**GEO/H/CC/05/TH/P Climatology**  
**GEO/H/CC/06/TH/P Statistical Methods in  
Geography**  
**GEO/H/CC/07/TH/P – Geography of India**  
**GEO/H/CC/08/TH/P- Regional Planning and  
Development**  
**GEO/H/CC/09/TH/P--Economic Geography**  
**GEO/H/CC/10/TH/P– Environmental  
Geography**  
**GEO/H/CC/11/TH/P – Research Methodology  
and Fieldwork**  
**GEO/H/CC/12/TH/P – Remote Sensing, GIS  
and GNSS**  
**GEO/H/CC/13/TH/P- Evolution of Geographical  
Thought**  
**GEO/H/CC/14/TH/P -Disaster Management**

## **HONOURS COURSE: CHOICES FOR FOUR DISCIPLINE SPECIFIC ELECTIVES**

- GEO/H/DSE/T/01/A – Urban Geomorphology**  
**GEO/H/DSE/T/01/B – Cultural and Settlement Geography**  
**GEO/H/DSE/T/02/A – Population Geography**  
**GEO/H/DSE/T/02/B – Social  
Geography**  
**GEO/H/DSE/T/03/A – Fluvial  
Geomorphology**  
**GEO/H/DSE/T/03/B – Resource  
Geography**  
**GEO/H/DSE/T/04/A- Soil and Bio  
Geography**  
**GEO/H/DSE/T/04/B –  
Agricultural Geography**

## **HONOURS COURSE: CHOICES FOR TWO SKILL ENHANCEMENT COURSES**

GEO/H/SEC/P/01/A - Computer Basics and Application  
GEO/H/SEC/P/01/B - Remote sensing  
GEO/H/SEC/P/02/A - Advance spatial  
statistical techniques  
GEO/H/SEC/P/02/B - Field Work

## **GENERAL COURSE: CORE SUBJECTS**

GEO-G-CC-1-01-TH/P Geotectonic and  
Geomorphology, scale and  
cartographic  
GEO-G-CC-2-02-TH/P -Climatology, Soil  
and Biogeography and surveying and  
leveling  
GEO-G-CC-3-03-TH/P - Human  
Geography and Map projection  
GEO-G-CC-4-04-TH/P-Environmental  
Geography and Field work

## **GENERAL COURSE: CHOICES FOR TWO DISCIPLINE SPECIFIC ELECTIVES**

GEO-G-DSE-01-ATH/P -Geography of India  
GEO-G-DSE-01-B-TH/P Economic Geography  
GEO-G-DSE-02-A-TH/P-Disaster Management  
GEO-G-DSE-02-B-TH/PGeographyofTourism

## **GENERAL COURSE: CHOICES FOR TWO SKILL ENHANCEMENT COURSES**

GEOG/SEC/P/01/A- Computer  
basics and Applications  
GEOG/SEC/P/01/B- Remote sensing  
GEOG/SEC/P/02/A-Advance spatial statistical techniques  
GEOG/SEC/P/02/B- Field work  
GEOG/SEC/P/03/A-Field techniques and survey based project report  
GEOG/SEC/P/03/B- Collection, Mapping and interpretation of pedological data  
GEOG/SEC/P/04/A- Collection, Mapping and interpretation of pedological data  
GEOG/SEC/P/04/B- Rocks and minerals identification

## **COURSE OUTCOMES CORE SUBJECT**

The course outcomes of the different papers offered are presented below. After completion of the course the student will be able to:

**COURSE CODE: CC/1/01/T**

**COURSE TITLE: Geotectonics And Geomorphology**

**COURSE OUTCOMES:**

- Understand the theories and fundamental concepts of Geotectonic and Geomorphology. Understand earth's tectonic and structural evolution. Gain knowledge about earth's interior. Develop an idea about concept of plate tectonics, and resultant landforms.
  - Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms.
  - Understanding crustal mobility and tectonics; with special emphasis on their role in landform development.
  - Overview and critical appraisal of landform development models.
  - Ability to record temperature, pressure, humidity and rainfall
  - Develop the skills of identification of features and correlation between them.
  - Do field surveys using appropriate techniques.
- Identification of rocks and minerals

**COURSE CODE: CC/1/02/P**

**COURSE TITLE: Cartographic Techniques and geological map study**

**COURSE OUTCOMES**

- Understand and prepare different kinds of maps.
- Recognize basic themes of map making.
- Development of observation skills

**COURSE CODE: CC/2/03/T**

**COURSE TITLE: Human Geography**

**COURSE OUTCOMES**

- Gain knowledge about major themes of human Geography.
- Acquire knowledge on the history and evolution of humans.
- Understand the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations.
- Develop an idea about space and society

**COURSE CODE: CC/2/04/P**

**COURSE TITLE: Thematic Mapping and Surveying**

**COURSE OUTCOMES:**

- Comprehend the concept of scales and representation of data through cartograms.
- Interpret geological and weather maps.
- Learn the usages of survey instruments.
- Brings direct interaction of different types of surveying instruments like Dumpy level and Theodolite with environment.

Develop an idea about different types of thematic mapping techniques

**COURSE CODE: CC/3/05/T**

**COURSE TITLE: Climatology**

**COURSE OUTCOMES:**

- Understand the elements of weather and climate, different atmospheric phenomena and climate change.
- Learn to associate climate with other environmental and human issues. Approaches to climate classification.
- To analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.
- Prepare various climatic maps and charts and interpret them.
- Learn to use of various meteorological instruments.
- Learn the interaction between the atmosphere and the earth's surface. Understand the importance of the atmospheric pressure and winds.

Understand how atmospheric moisture works.

**COURSE CODE: CC/3/06/T/P**

**COURSE TITLE: Statistical Methods in Geography**

**COURSE OUTCOMES:**

- E Learn the significance of statistics in geography. Understand the importance of use of data in geography
- Recognize the importance and application of Statistics in Geography
- Interpret statistical data for a holistic understanding of geographical phenomena.
- Know about different types of sampling.
- Develop an idea about theoretical distribution.
- Learn to use tabulation of data.
- Gain knowledge about association and correlation

**COURSE CODE: CC/3/07/T**

**COURSE TITLE: Geography of India**

**COURSE OUTCOMES:**

After the completion of the course, Students will be able to

- Identifying and explaining the Indian Geographical Environment, from global to local scales.
- Applying geographical knowledge to everyday living.
- Applying knowledge of global issues to a unique scientific problem.
- Showing an awareness and responsibility for the environment and India.
- Evaluating the impacts of human activities on natural environments special reference to Indi

**COURSE CODE: SEC/3/01/A/P**

**COURSE TITLE: Computer basics and Application**

**COURSE OUTCOMES:**

- Understanding the concept of input and output devices of Computers
  - Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.
  - Understand an operating system and its working, and solve common problems related to operating systems
  - Learn basic word processing, Spreadsheet and Presentation Graphics Software skills.
- Study to use the Internet safely, legally, and responsibly

**COURSE CODE: SEC/3/01/B/P**

**COURSE TITLE: Remote Sensing**

**COURSE OUTCOMES:**

- This paper is a core paper that intends to introduce students to the interface of RemoteSensing and GIS.
- It seeks to develop new insights among students on the relevance of geospatial studies within the field of geography.
- The paper remains useful for students in developing skills in spatial data analysis if they wish to pursue a research programmed.

**COURSE CODE: CC/4/08/T**

**COURSE TITLE: Regional Planning & Development**

**COURSE OUTCOMES:**

- Understand and identify regions as an integral part of geographical study.
- Appreciate the varied aspects of development and regional disparity, in order to formulate measures of balanced development.
- Analyzing the concept of regions and regionalization.

- Studying typical physiographic, planning, arid and biotic regions of India. Understanding the detailed geography of India
- Gain knowledge about definition of region, evolution and types of regional planning. Develop an idea about choice of a region for planning.
- Build an idea about theories and models for regional planning. Know about measuring development indicators.
- They can know about delineation of formal regions by weighted index method and also delineation of functional regions by breaking point analysis.
- Gain knowledge about measuring inequality by Location Quotient and also measuring regional disparity by Sopher Index

**COURSE CODE: CC/4/09/T**

**COURSE TITLE: Economic Geography**

**COURSE OUTCOMES**

- Understand the concept of economic activity, factors affecting location of economic activity. Gain knowledge about different types of Economic activities
- Assess the significance of Economic Geography, the concept of economic man and theories of choice.
- Analyze the factors of location of agriculture and industries.
- Understand the evolution of varied types of economic activities.
- Map and interpret data on production, economic indices, transport network and flows.

**COURSE CODE: CC/4/10/T/P**

**COURSE TITLE: Environmental Geography**

**COURSE OUTCOMES:**

- This paper is a core paper that intends to introduce students to geography and environment interface.
- It seeks to develop new insights among students on the relevance of environmental studies from a spatial perspective.
- The paper will be useful for students in developing ideas on environmental issues that geographers usually address

**COURSE CODE: SEC/4/02/A/P**

**COURSE TITLE: Advance Spatial Statistical techniques**

**COURSE OUTCOMES:**

- This paper study on Advanced Spatial Statistical Techniques basically deals with understanding the application of different statistical measures for analyzing data relating to various geographical phenomena.
- It provides general understanding of geographical data and application of various statistical measures for their meaningful analysis
- Acquiring basic knowledge about probability and normal distributions and their

applications for sample data collection and analysis

- Understanding the patterns and processes associated with various geographical phenomena through application of different statistical techniques

**COURSE CODE: SEC/4/02/B/P**

**COURSE TITLE: Field Work**

**COURSE OUTCOMES:**

- The paper Research Methods (Practical) is will enable students to understand how to approach a research problem and to formulate research objectives and research questions in proper perspective. In addition, knowledge of formulating of hypothesis and testing, framing of questionnaires, understand both qualitative and quantitative techniques of data collection and analyze the same Understand the basics and utility of review of literature and preparation of research report.
- This course will help students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed which doing quality research.

**COURSE CODE: CC/5/11/T/P**

**COURSE TITLE: Research Methodology & Field Work**

**COURSE OUTCOMES:**

The paper Research Methods (Practical) is will enable students to understand how to approach a research problem and to formulate research objectives and research questions in proper perspective. In addition, knowledge of formulating of hypothesis and testing, framing of questionnaires, understand both qualitative and quantitative techniques of data collection and analyze the same Understand the basics and utility of review of literature and preparation of research report.

This course will help students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed which doing quality research.

**COURSE CODE: CC/5/12/T/P**

**COURSE TITLE: Remote Sensing, GIS & GNS**

**COURSE OUTCOMES:**

- Students will demonstrate knowledge of the foundations and theories of geographic information systems (GIS) and use the tools and methods of GIS.
- Students will demonstrate their knowledge of physical geography and the methods and techniques for observing, measuring, recording and reporting on geographic phenomena.
- Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.
- Student will be familiar with modern techniques in Geography.
- Students will be prepared to apply their skills in professional careers.

**COURSE CODE: CC/6/13/T**

**COURSE TITLE: Evolution of Geographical Thought**

**COURSE OUTCOMES:**

- Perceive the evolution of the philosophy of Geography.
- Appreciate the contribution of the thinkers in Geography.
- Give power point presentations on different schools of geographical thought.
- Discussing the evolution of geographical thought from ancient to modern times.
- Establishing relationship of Geography with other disciplines and man-environment relationships.

Analyzing modern and contemporary principles of Empiricism, Positivism, Structuralism, Human and Behavioral Approaches in Geography

**COURSE CODE: CC/6/14/T/P**

**COURSE TITLE: Disaster Management**

**COURSE OUTCOMES:**

- Understand the nature of hazards and disasters.
- Assess risk, perception and vulnerability with respect to hazards.
- Prepare hazard zonation maps.
- Assessing the nature, impact and management of major natural and man-made hazards affecting the Indian subcontinent

### **COURSE OUTCOMES DISCIPLINE SPECIFIC ELECTIVES (DSE)**

**COURSE CODE: DSE/01/A/T**

**COURSE TITLE: Urban Geography**

**COURSE OUTCOMES:**

- Understand the nature, scope, approaches and recent trends in Urban Geography
- Temporal analysis of urban growth using census data
- Trace the origin of urban places over time and analyze the factors, stages and characteristics of these places
- Analyze the theories of urban evolution and growth, Hierarchy of urban settlements
- Understand the various aspects of urban place : location, site and situation; Rank-size rule and Law of primate city
- Understand the concept of urban hierarchies
- Understand the patterns of urbanization in developed and developing countries
- Understand the ecological processes of urban growth; urban fringe; city-region
- Analyze the models on city structure
- Identify and analyze the problems of housing, slums and civic amenities
- Understand the patterns and trends of urbanization in India
- Assess the policies on urbanization in post-liberalized India
- Study the changing land use of Delhi, Kolkata and Chandigarh

- Learn the technique to plot Rank-Size Rule and establish a hierarchy of urban settlements
  - Assess state-wise variation and trends of urbanization.
  - Learn to analyze census data to measure urban growth.
- Develop a skill to prepare urban land use map from satellite images.

**COURSE CODE: DSE/01/B/T**

**COURSE TITLE: Cultural & Settlement Geography**

**COURSE OUTCOMES:**

- Understand the scope and content of cultural geography.
  - Trace the development of cultural geography in relation to allied disciplines.
  - Understand the concept of cultural hearth and realm, cultural diffusion, diffusion of religion.
  - Develop an understanding of cultural segregation and cultural diversity, technology and development.
  - Learn about the various races and racial groups of the world.
  - Identify the cultural regions of India.
  - Acquire knowledge about Rural settlements- Definition, nature and characteristics
  - Analyze the morphology of rural settlements.
  - Learn the rural house types, census categories of rural settlements and idea of social segregation.
  - Learn the census definition and categories of urban settlements.
  - Analyze the urban morphology models of Burgess, Hoyt, Harris and Ullman
  - Differentiate between city-region and conurbation.
  - Analyze the functional classification of cities.
  - Develop the skill of mapping language distribution of India.
  - Learn to plot proportional squares to illustrate housing distribution.
  - Acquire the skill of identifying rural settlement types from topographical sheet
- Understand Social Area Analysis of a city based on Shevky and Bell.

**COURSE CODE: DSE/02/A/T**

**COURSE TITLE: Population Geography**

**COURSE OUTCOMES:**

- To understand about the Population scenario of the world and their related problems.
- To know about the various population characteristics and related population theories.
- It helps the students to understand the rural urban population structure and their various issues.
- To understand about the morphology of the various settlement pattern.
- It helps students to understand the various settlement types and their characteristics.

**COURSE CODE: DSE/02/B/T**

**COURSE TITLE: Social Geography**

**COURSE OUTCOMES:**

The paper will be useful for the students in developing ideas on basic concept of social geography.

It deals with the social categories like- caste, class, religion, ethnicity, and gender and their spatial distribution.

**COURSE CODE: DSE/03/A/T**

**COURSE TITLE: Fluvial Geomorphology**

**COURSE OUTCOMES:**

The course "Fluvial Geomorphology" is an introduction to basic concepts concerning drainage networks and drainage basins. It deals with the fluvial processes relative to the flowing water and the results of those processes which are the fluvial landforms. The main aim of the course is to understand the basic processes such as a) the erosion by the action of surface water, b) transport of eroded material through river beds and c) deposition in areas of reduced flow capacity. In this course the student:

- understands the features and mechanisms of the formation of fluvial landforms (river channels, knick points, fluvial terraces, flood plains, alluvial fans),
- develops skills related to the methodologies for geomorphological mapping of fluvial environments,
- learns quantitative analysis of drainage networks and to estimate incision rates in tectonically active areas,
- Becomes familiar with the identification of fluvial landforms in the field.

**COURSE CODE: DSE/03/B/T**

**COURSE TITLE: Resource Geography**

**COURSE OUTCOMES**

- Understand the scope and content of cultural geography
- Trace the development of cultural geography in relation to allied disciplines
- Understand the concept of cultural hearth and realm, cultural diffusion, diffusion of religion
- Develop an understanding of cultural segregation and cultural diversity, technology and development
- Learn about the various races and racial groups of the world
- Identify the cultural regions of India
- Acquire knowledge about Rural settlements- Definition, nature and characteristics
- Analyze the morphology of rural settlements
- Learn the rural house types, census categories of rural settlements and idea of social segregation
- Learn the census definition and categories of urban settlements
- Analyze the urban morphology models of Burgess, Hoyt, Harris and Ullman

- Differentiate between city-region and conurbation
  - Analyze the functional classification of cities
  - Develop the skill of mapping language distribution of India
  - Learn to plot proportional squares to illustrate housing distribution
  - Acquire the skill of identifying rural settlement types from topographical sheet
- Understand Social Area Analysis of a city based on Shevky and Bell

**COURSE CODE: DSE/04/A/T**

**COURSE TITLE: Soil & Bio Geography**

**COURSE OUTCOMES:**

- Have knowledge about the character and profile of different soil types.
- Understand the impact of man as an active agent of soil transformation, erosion and degradation.
- Recognize land capability and classify it.
- Explaining the Pedological and Edaphological Approaches to Soil Studies - Processes of soil formation, types of soil, and principles of soil and land classification; and management.
- Understand the varied ecosystems and classify them.
- Recognize the significance of biogeochemical cycles and biodiversity.
- Comprehend the devastating impact of deforestation.
- Identify soil types and derive their pH.

**COURSE CODE: DSE/04/B/T**

**COURSE TITLE: Agricultural Geography**

**COURSE OUTCOMES:**

- To introduce students Agricultural activities and its relation with Geography.
- To familiarize the students with new modern technical methods and their applications in Agricultural activities.
- To enable students to apply Previously knowledge in Problems and Prospects in agriculture

### **COURSE OUTCOMES GENERAL CORE SUBJECT**

**COURSE CODE: GEOG/CC/01/T/P**

**COURSE TITLE: Geotectonic, Geomorphology, Scale & Cartographic**

**COURSE OUTCOMES:**

- Understand the theories and fundamental concepts of Geotectonic and Geomorphology. Understand earth's tectonic and structural evolution. Gain knowledge about earth's interior. Develop an idea about concept of plate tectonics, and resultant landforms.
- Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms.
- Understanding crustal mobility and tectonics; with special emphasis on their role in landform development.

- Overview and critical appraisal of landform development models.
- Ability to record temperature, pressure, humidity and rainfall
- Develop the skills of identification of features and correlation between them.
- Do field surveys using appropriate techniques.

Identification of rocks and minerals

- Understand and prepare different kinds of maps.
- Recognize basic themes of map making.

Development of observation skills

**COURSE CODE: GEOG/CC/02/T/P**

**COURSE TITLE: Climatology, Soil, Biogeography, Surveying & Leveling**

**COURSE OUTCOMES:**

- Understand the elements of weather and climate, different atmospheric phenomena and climate change.
- Learn to associate climate with other environmental and human issues. Approaches to climate classification.
- To analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.
- Prepare various climatic maps and charts and interpret them.
- Learn to use of various meteorological instruments.
- Learn the interaction between the atmosphere and the earth's surface. Understand the importance of the atmospheric pressure and winds.

Understand how atmospheric moisture works

- Have knowledge about the character and profile of different soil types.
- Understand the impact of man as an active agent of soil transformation, erosion and degradation.
- Recognize land capability and classify it.
- Explaining the Pedological and Edaphological Approaches to Soil Studies - Processes of soil formation, types of soil, and principles of soil and land classification; and management.
- Understand the varied ecosystems and classify them.
- Recognize the significance of biogeochemical cycles and biodiversity.
- Comprehend the devastating impact of deforestation.
- Identify soil types and derive their pH.
- Comprehend the concept of scales and representation of data through cartograms.
- Interpret geological and weather maps.
- Learn the usages of survey instruments.
- Brings direct interaction of different types of surveying instruments like Dumpy level and Theodolite with environment.
- Develop an idea about different types of thematic mapping techniques

**COURSE CODE: GEOG/CC/03/T/P**

**COURSE TITLE: Human Geography, Map projection & Interpretation**

**COURSE OUTCOMES:**

- The paper intends to introduce students to human geography and how humankind transforms and gets transformed by geographic space.
- It seeks to develop new insights among students on the relevance of human-environmental relationships and how a spatial perspective shapes these relationships.
- The subject will be useful for students in developing ideas on human-environment issues.
- The Cartographic Techniques provides a general understanding of the field of cartography including its modern developments and importance in geographic study. It more particularly focuses on various types of map scale and their construction; principles of map projection and construction of selected few; and preparation of thematic maps through the representation of various geographical data using different cartographic techniques.
- Understanding the importance of various cartographic techniques in geographical study.
- General understanding of map type, map scale and map content.
- An acquaintance of different cartographic techniques for representation of various facets of physical and human geographic data of any area.

**COURSE CODE: GEOG/CC/04/T/P**

**COURSE TITLE: Environmental Geography & Field Work**

**COURSE OUTCOMES:**

- This paper is a core paper that intends to introduce students to geography and environment interface.
- It seeks to develop new insights among students on the relevance of environmental studies from a spatial perspective.
- The paper will be useful for students in developing ideas on environmental issues that geographers usually address.

## **COURSE OUTCOMES**

### **GENERAL DISCIPLINE SPECIFIC ELECTIVES SUBJECT**

**COURSE CODE: GEOG/DSE/01/T**

**COURSE TITLE: Geography of India**

#### **COURSE OUTCOMES:**

After the completion of the course, Students will be able to

- Identifying and explaining the Indian Geographical Environment, from global to local scales.
- Applying geographical knowledge to everyday living.
- Applying knowledge of global issues to a unique scientific problem.
- Showing an awareness and responsibility for the environment and India.
- Evaluating the impacts of human activities on natural environments special reference to India

**COURSE CODE: GEOG/DSE/02/T**

**COURSE TITLE: Economic Geography**

#### **COURSE OUTCOMES:**

- Understand the concept of economic activity, factors affecting location of economic activity. Gain knowledge about different types of Economic activities
- Assess the significance of Economic Geography, the concept of economic man and theories of choice.
- Analyze the factors of location of agriculture and industries.
- Understand the evolution of varied types of economic activities.

**COURSE CODE: GEOG/DSE/03/T**

**COURSE TITLE: Disaster Management**

#### **COURSE OUTCOMES:**

- Understand the nature of hazards and disasters.
- Assess risk, perception and vulnerability with respect to hazards.
- Prepare hazard zonation maps.
- Assessing the nature, impact and management of major natural and man-made hazards affecting the Indian subcontinent.

**COURSE CODE: GEOG/DSE/04/T**

**COURSE TITLE: Geography of Tourism**

#### **COURSE OUTCOMES:**

- Learn Scope and Nature: Concepts and issues, tourism, recreation and leisure inter-relations; Factors influencing tourism, Types of Tourism: Ecotourism, cultural tourism, adventure tourism, medical tourism, pilgrimage, international, national.
- Use of information on factors (Historical, natural, socio-cultural and economic; motivating factors for pilgrimages) to plan destination marketing; tourism products; niche tourism planning ; Tourism impact assessment, Sustainable tourism, Information Technology and Tourism, Tour operations planning and guiding.

## **COURSE OUTCOMES**

### **GENERAL SKILL ENHANCEMENT COURSES**

**COURSE CODE: GEOG/SEC/01/A/P**

**COURSE TITLE: Computer basics & applications**

**COURSE OUTCOMES**

- Understanding the concept of input and output devices of Computers
  - Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.
  - Understand an operating system and its working, and solve common problems related to operating systems
  - Learn basic word processing, Spreadsheet and Presentation Graphics Software skills.
- Study to use the Internet safely, legally, and responsibly

**COURSE CODE: GEOG/SEC/01/B/P**

**COURSE TITLE: Remote Sensing**

**COURSE OUTCOMES:**

- This paper is a core paper that intends to introduce students to the interface of Remote Sensing and GIS.
- It seeks to develop new insights among students on the relevance of geospatial studies within the field of geography.
- The paper remains useful for students in developing skills in spatial data analysis if they wish to pursue a research programme

**COURSE CODE: GEOG/SEC/02/A/P**

**COURSE TITLE: Advance spatial statistical techniques**

**COURSE OUTCOMES:**

- a. This paper study on Advanced Spatial Statistical Techniques basically deals with understanding the application of different statistical measures for analysing data relating to various geographical phenomena.
- b. It provides general understanding of geographical data and application of various statistical measures for their meaningful analysis
- c. Acquiring basic knowledge about probability and normal distributions and their applications for sample data collection and analysis

Understanding the patterns and processes associated with various geographical phenomena through application of different statistical techniques

**COURSE CODE: GEOG/SEC/02/B/P**

**COUR SE TITLE: Field Work**

**COURSE OUTCOMES**

The paper Research Methods (Practical) is will enable students to understand how to approach a research problem and to formulate research objectives and research questions in proper perspective. In addition, knowledge of formulating of hypothesis and testing, framing of questionnaires, understand both qualitative and quantitative techniques of data collection and analyze the same Understand the basics and utility of review of literature and preparation of research report.

This course will help students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed which doing quality research.

**COURSE CODE: GEOG/SEC/03/A/P**

**COUR SE TITLE: Field techniques and survey based project report**

**COURSE OUTCOMES**

**COURSE CODE: GEOG/SEC/03/B/P**

**COUR SE TITLE: Collection, mapping interpretation of climatic data**

**COURSE OUTCOMES**

**COURSE CODE: GEOG/SEC/04/A/P**

**COUR SE TITLE: Collection, mapping and interpretation of pedological data**

**COURSE OUTCOMES**

**COURSE CODE: GEOG/SEC/04/B/P**

**COUR SE TITLE: Rocks & Mineral Identification**

**COURSE OUTCOMES**

After reading this chapter of the textbook, learning the vocabulary, and working through the review questions, students should be able to:

- Define the term mineral and provide examples of several common minerals.
- Name the parts of the atom, draw a diagram of an atom, and label the charges of the particles that make up the atom.
- Name the types of chemical bonds, and give examples of molecules and minerals where they occur.
- Describe several common mineral crystal habits.
- Name the groups/classes of rock forming minerals, give an example of each of them, and an environment where each class of mineral forms.
- Name and sketch the different types of silicate structures and give examples of each.
- Describe the properties we can use to help identify minerals, and give a range of examples of each property.
- Define the term rock.

## **PROGRAM OUTCOMES(PO)**

- To understand the scope and evolution of the diverse discipline of Geography.
- Recognize, synthesize and evaluate diverse sources of knowledge, arguments and approaches pertinent to exploring human-environment problems. Explain societal relevance of geographical knowledge and apply it to real world human- environment issues.
- Appreciate and reflect critically on the importance of holistic and interpretative human-environment perspectives.
- An understanding and acknowledgment of the threats that endanger the earth's natural systems. This helps in further realization of the significance of anthropogenic causes of many of the disasters and threats that puts life on this planet on the edge.
- Development of knowledge, skills and holistic understanding of the discipline among students. Encouragement of scientific mode of thinking and scientific method of enquiry in students. This goal is achieved through the regular field excursions conducted by the Department to various parts of India extensively and the writing of a report/thesis on it.
- Students become equipped with the ability to respond to both natural and man-made disasters and acquire management skills. This is attained through the curriculum by studying and analyzing hazards, disasters, their impact and management.
- Ability to undertake research in interdisciplinary studies and problems or issues beyond the realm of what strictly comes under the purview of geography. This is possible because of the varied nature of the curriculum that encompasses the study and analyses of concepts of sub-disciplines and allied disciplines of Geology, Seismology, Pedology, Environmental Studies, Disaster Management, Resource Management and Conservation, Regional Planning and Development Studies etc.

## **PROGRAMME SPECIFIC OUTCOMES (PSO)**

**PSO 1** - Student will gain the knowledge of physical geography. They will gather knowledge about the fundamental concepts of Geography and will have a general understanding about the geomorphologic and geotectonic process and formation. Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change.

**PSO 2** – Associating landforms with structure and process; establishing man-environment relationships; and exploring the place and role of Geography vis-a-vis other social and earth sciences. Students can easily correlate the knowledge of physical geography with the human geography. They will analyze the problems of physical as well as cultural environments of both rural and urban areas. Moreover they will try to find out the possible measures to solve those problems

**PSO 3** – Understanding the functioning of global economies, geopolitics, global geostrategic views and functioning of political systems

**PSO 4** – Developing a sustainable approach towards the ecosystem and the biosphere with a view to conserve natural systems and maintain ecological balance.

**PSO 5** –The physical environment, human societies and local and/or global economic systems are integrated to the principles of sustainable development

**PSO 6** – Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography. Explaining and analyzing the regional diversity of India through interpretation of natural and planning regions.

**PSO 7** – Analyzing the differential patterns of the human habitation of the Earth, through studies of human settlements and population dynamics. Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization

**PSO 8** – Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviouralism, idealism etc.

**PSO 9** – Sensitization and awareness about the hazards and disasters to which the subcontinent is vulnerable; and their management.

**PSO 10** – As a student of the Course they will enrich their observation power through field experience and in future this will be helpful for identifying the socio- environmental problems of their community.

**PSO 11** – Training in practical techniques of mapping, cartography, software, interpretation of maps, photographs and images etc; so as to understand the spatial variation of phenomena on the Earth's surface. They will learn how to prepare map based on GIS by using the modern geographical map making techniques.