

DEPARTMENT OF GEOGRAPHY
PROGRAMME SPECIFIC OUTCOME

Geography Honours Course(CBCS and Part I+II+III System)

Geography mainly concerns changes in spatial attributes in a temporal perspective. The Honours programme in geography is tailored to meet the students' specific educational and professional goals in mind. It focuses on spatial studies, qualitative as well as quantitative, and emphasises on human-environment relationship. During the first year of the programme, the students are trained on advanced concepts of physical and human geography. The third year allows them to concentrate on specific areas of the subject, on which they complete their field reports. After completing the course, the students will be amply prepared for professional careers in geography and allied disciplines like GIS and Remote Sensing. They will also be able to pursue M.A. /M.Sc. Course in Geography.

PSO1.Acquireing Knowledge of Physical Geography:

Student will gain the knowledge of physical geography. Student will have a general understanding about the geomorphological and geotechnical process and formation. They will be able to correlate the knowledge of physical geography with the human geography.

PSO2.Acquireing Knowledge of Human Geography:

They will be able to acquire the knowledge of Human Geography and will correlate it with their practical life.

PSO3. Ability of Problem Analysis:

Student will be able to analyse 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.

PSO4.Conduct Social Survey Project:

They will be eligible for conducting social survey project which is needed for measuring the status of development of a particular group or section of the society.

PSO5. Application of modern instruments:

Students will be able to learn the application of various modern instruments and by these they will be able to collect primary data.

PSO6. Application of GIS and modern Geographical Map Making Techniques:

They will learn how to prepare map based on GIS by using the modern geographical map making techniques.

PSO7. Development of Observation Power:

As a student of Geography Honours Course they will be capable to develop their observation power through field experience and in future they will be able to identify the socio-environmental problems of a locality.

PSO8. Development of Communication Skill and Interaction Power:

After the completion of the project they will be efficient in their communication skill as well as power of social interaction. Some of the students are being able to understand and write effective reports and design credentials, make effective demonstrations, and give and receive clear instructions.

PSO9. Enhancement of the ability of Management:

Demonstrate knowledge and understanding of the management principles and apply these to their own work, as a member and leader in a team, to manage projects. They will perform effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PSO10. Understand Environmental Ethics and Sustainability:

Understand the impact of the acquired knowledge in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development.

PSO11. Life-long learning:

Identify the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of societal and environmental change.

CBCS**COURSE OUTCOMES (Cos) OF THE COURSE B.A HONOURS****GEOTECTONIC (GEO-H-DSC-1-01-TH, SEM-I)**

CO1. Understand earth's tectonic and structural evolution.

CO2. Gain knowledge about earth's interior.

CO3. Develop an idea about concept of plate tectonics, and resultant landforms.

CO4. Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms.

PRACTICALS (GEO-H-DSC-1-01-PR, SEM-I)

CO1. Develop an idea about scale and draw different types of scale like linear, diagonal and vernier.

CO2. Acquire knowledge different types of map projection.

GEOMORPHOLOGY (GEO-H-DSC-1-02-TH, SEM-I)

CO1. Develop an idea about geomorphology and different types of fundamental concepts.

CO2. Explain different types of geomorphic processes like weathering and mass wasting and cycle of erosion.

CO3. Understand the processes of erosion, deposition and resulting landforms.

CO4. Acquire knowledge about slope forms and processes.

PRACTICALS (GEO-H-DSC-1-02-PR, SEM-I)

CO1. Gain knowledge about topographical maps and apply this knowledge in ground surface.

CO2. Identification of different types of rock and minerals.

HUMAN GEOGRAPHY (GEO-H-DSC-2-03-TH, SEM-II)

CO1. Gain knowledge about major themes of human geography.

CO2. Develop an idea about space and society.

CO3. Build an idea about population growth and distribution of population.

CO4. . Know about population –resource relationship.

PRACTICALS (GEO-H-DSC-2-03-PR, SEM-II)

CO1. Know about diagrammatic data presentation like line, bar and circle.

CO2. Develop an idea about different types of thematic mapping techniques.

SETTLEMENT GEOGRAPHY (GEO-H-DSC-2-04-TH, SEM-II)

CO1. Build an idea about urban and rural settlements, and its relationship with environment and also different theories related to settlement geography.

CO2. Know about classification and morphology of settlements.

CO3. Understand the trends and patterns of world urbanization.

CO4. Know about different theories of urban growth.

PRACTICALS (GEO-H-DSC-2-04-PR, SEM-II)

CO1. Brings direct interaction of different types of surveying instruments like Dumpy level and Theodolite with environment.

CO2. Develop an idea about different types of thematic mapping techniques.

CLIMATOLOGY (GEO-H-DSC-3-05-TH, SEM-III)

CO1. Learn the interaction between the atmosphere and the earth's surface.

CO2. Understand the importance of the atmospheric pressure and winds.

CO3. Understand how atmospheric moisture works.

CO4. Develop an idea about cyclones.

PRACTICALS (GEO-H-DSC-3-05-PR, SEM-III)

CO1. Learn to use of various meteorological instruments.

CO2. Gain knowledge about Indian daily weather report.

STATISTICAL METHODS IN GEOGRAPHY (GEO-H-DSC-3-06-TH, SEM-III)

CO1. Learn the significance of statistics in geography.

CO2. Understand the importance of use of data in geography

CO3. Know about different types of sampling.

CO4. Develop an idea about theoretical distribution.

PRACTICALS (GEO-H-DSC-3-06-PR, SEM-III)

CO1. Learn to use tabulation of data.

CO2. Gain knowledge about association and correlation.

GEOGRAPHY OF INDIA (GEO-H-DSC-3-07-TH, SEM-III)

CO1. They can know about their own countries land formation, climate and natural vegetation.

CO2. They understand the economic resources of India.

CO3. They understand the social distribution of population of their country.

CO4. Develop an idea about regionalisation of India.

PRACTICALS (GEO-H-DSC-3-07-PR, SEM-III)

CO1. Learn to draw monthly temperature and rainfall graphs.

CO2. Gain knowledge about measuring arithmetic growth rate of population and also measures of inequality.

REMOTE SENSING (GEO-SEC-A-3-01-TH, SEM-III)

CO1. They can know about remote sensing.

CO2. They understand the satellite remote sensing

CO3. They understand the image processing.

CO4. Develop an idea about satellite image interpretation.

RURAL DEVELOPMENT (GEO-SEC-A-3-01-TH, SEM-III)

CO1. They can know about concept, basic elements, and measures of level of rural development.

CO2. They understand the paradigms of rural development.

CO3. They understand the area based approach to rural development.

- CO4. Develop an idea about target group approach to rural development.
CO5. Gain knowledge about rural governance.

ECONOMIC GEOGRAPHY (GEO-H-DSC-4-08-TH, SEM-IV)

- CO1. Understand the concept of economic activity, factors affecting location of economic activity.
CO2. Gain knowledge about different types of primary activities.
CO3. Develop an idea about different types of secondary activities.
CO4. Acquire knowledge about different types of tertiary activities.

PRACTICALS (GEO-H-DSC-4-08-PR, SEM-IV)

- CO1. They can know about transport network analysis.
CO2. Gain knowledge about representation of state wise variation in occupational structure and work participation rate using proportional circles and proportional divided circles and also composite index.

REGIONAL PLANNING AND DEVELOPMENT (GEO-H-DSC-4-09-TH, SEM-IV)

- CO1. Gain knowledge about definition of region, evolution and types of regional planning.
CO2. Develop an idea about choice of a region for planning.
CO3. Build an idea about theories and models for regional planning.
CO4. . Know about measuring development indicators.

PRACTICALS (GEO-H-DSC-4-09-PR, SEM-IV)

- CO1. They can know about delineation of formal regions by weighted index method and also delineation of functional regions by breaking point analysis.
CO2. Gain knowledge about measuring inequality by Location Quotient, and also measuring regional disparity by Sopher Index.

FIELD WORK & RESEARCH METHODOLOGY (GEO-H-DSC-4-10-TH, SEM-IV)

- CO1. Learn the significance of field work in geographical studies.
CO2. Understand the meaning of field and identifying the case study.
CO3. Know about different types of field techniques.
CO4. Develop an idea about research problems.

GEOGRAPHICAL INFORMATION SYSTEM (GEO-SEC-A-4-02-TH, SEM-IV)

- CO1.** They can know about concept and components of Geographical Information System.
CO2. They understand the Global Positioning System.

- CO3. They understand the GIS Data Structures.
- CO4. Develop an idea about GIS Data Analysis.
- CO5. Know about application of GIS.

TOURISM MANAGEMENT (GEO-SEC-A-4-02-TH, SEM-IV)

- CO1. They can know about concepts, nature and scope, inter-relationships of tourism, recreation and leisure.
- CO2. They understand about types of tourism.
- CO3. Know about recent trends of tourism.
- CO4. Develop an idea about tourism in India.
- CO5. Know about National Tourism Policy.

ENVIRONMENTAL GEOGRAPHY (GEO-H-DSC-5-11-TH, SEM-V)

- CO1. Gain knowledge about concept, scope of environmental geography and components of environment.
- CO2. Develop an idea about human-environment relationships.
- CO3. Build an idea about ecosystem.
- CO4. Know about environmental programmes and policies.

PRACTICALS (GEO-H-DSC-5-11-PR, SEM-V)

- CO1. They can know how prepare a questionnaire on the basis of perception survey on environmental problems.
- CO2. Gain knowledge about doing project on environmental problems of North Bengal.

REMOTE SENSING AND GIS (GEO-H-DSC-5-12-TH, SEM-V)

- CO1. They can know about concepts, components, development, platforms and types of remote sensing and GIS.
- CO2. They understand about Aerial photography and Satellite Remote Sensing.
- CO3. Know about GIS data structures.
- CO4. Develop an idea about interpretation and application of remote sensing and GIS.

PRACTICALS (GEO-H-DSC-5-12-PR, SEM-V)

- CO1. They can know about the interpretation of Air photographs and Satellite imagery.
- CO2. Gain knowledge about image processing, classification of georeferencing, editing and output, overlays.

EVOLUTION OF GEOGRAPHICAL THOUGHTS (GEO-H-DSC-6-13-TH, SEM-VI)

- CO1. Gain knowledge about development of geographical thought.

CO2. Develop an idea about evolution of geographical thinking and disciplinary trends in Germany, France, Britain, and United States of America.

CO3. Build an idea about between environmental determinism and possibilism, systematic and regional.

CO4. Know about the trends of geographical thoughts.

PRACTICALS (GEO-H-DSC-6-13-PR, SEM-VI)

CO1. They can know about the quantitative techniques in geography.

CO2. Gain knowledge about crop combination by Weber, Rafiulla and Doi.

DISASTER MANAGEMENT (GEO-H-DSC-6-14-TH, SEM-VI)

CO1. Understand the definition, classification of hazards and disasters

CO2. Gain knowledge about approaches to hazard study.

CO3. Develop an idea about factors, consequences and management of earthquake, landslide, flood and riverbank erosion.

CO4. Acquire knowledge about human induced disaster.

PRACTICALS (GEO-H-DSC-6-14-PR, SEM-VI)

CO1. They have to know how prepare a project report based on any one field based case study on flood, landslide, earthquake and human induced disaster.

(I+I+I) EXAMINATION SYSTEM

COURSE OUTCOMES (Cos) OF THE COURSE B.A HONOURS GEOGRAPHY

PART I

PHYSICAL GEOGRAPHY

CO1. Understand different theories of the earth.

CO2. Develop history of geomorphic ideas of different schools.

CO3. Gain knowledge about earth's interior.

CO4. Develop an idea about concept of earth's movements and related topography.

CO5. Acquire knowledge about different process of denudation.

PHYSICAL GEOGRAPHY

CO1. Understand the processes of erosion, deposition and resulting landforms.

CO2. Explain the development of drainage system in uniclinal and folded structure.

CO3. Understand concept of normal cycle of erosion and its interruption.

CO4. Develop an idea about types of coastal landforms.

CO5. Acquire knowledge about hydrology.

GEOGRAPHY OF RESOURCES

- CO1. Develop an idea about resource.
- CO2. Understand the concept of different types of resources.
- CO3. Acquire knowledge about different types of power resources.
- CO4. Explain population - resource relationship and different types of population resources.

PRACTICAL

- CO1. Develop an idea about scale and draw different types of scale like linear, diagonal and vernier.
- CO2. Acquire knowledge different types of map projection.
- CO3. Gain knowledge about topographical maps and apply this knowledge in ground surface.
- CO4. Learn the use of various minor instruments like rotameter, Planimeter and Pantograph.

COURSE OUTCOMES (Cos) OF THE COURSE B.A HONOURS GEOGRAPHY PART II

GEOGRAPHY OF ECONOMIC ACTIVITIES

- CO1. Understand different types of economics activities.
- CO2. Identify farming in humid tropics.
- CO3. Know about the various industrial occupations.

POPULATION GEOGRAPHY

- CO1. Gain knowledge different aspects of population geography.
- CO2. Develop an idea about the concept of Migration.

SETTLEMENT & POLITICAL GEOGRAPHY

- CO1. Build an idea about urban and rural settlements, and its relationship with environment and also different theories related to settlement geography.
- CO2. Know about political geography.

PRACTICAL

- CO1. Brings direct interaction of different types of surveying instruments like Prismatic Compass, Plane table, Dumpy level, Theodolite with environment.
- CO2. Gain knowledge about geological maps and drawing of sections and interpretations of the relief and structure of the geological maps.
- CO3. Identification of different types of rock and minerals.

COURSE OUTCOMES (Cos) OF THE COURSE B.A HONOURS GEOGRAPHY

PART III PAPER-IX CLIMATOLOGY

CO1. Students will learn the process of interaction between the atmosphere and the earth's surface.

CO2. They will be able to understand the importance of the ozone layer and bad effect of green- house gasses moreover will be eligible to apply this for the solution of environmental problem.

CO3. They understand how the planetary and periodic wind and pressure belt related to each other. Also they understand how to develop the tropical cyclones, El Nino and La Nina.

CO4. Students can explain the important role of water to create condensation and precipitation.

PAPER-X PEDOLOGY & BIOGEOGRAPHY

CO1. They can know the soil formation processes, development and soil physical and chemical composition.

CO2. Understand the genetic soil classification and U.S.D.A. soil taxonomy.

CO3. Students can learn the scope and significance of biogeography. Also know, factors affecting the growth and distribution of natural vegetation.

CO4. They also gather knowledge about biome, ecotone and community, types and component parts of ecosystem, bio-energy cycle, food chain and trophic level. This can help them to predict the future change of biogeographical components.

CO5. They can illustrate the importance about bio-diversity and wetlands.

PAPER-XI GEOGRAPHY OF INDIA

CO1. They can know about their own countries land formation, climate and natural vegetation.

CO2. They understand the population problems in India. Access the population policies and reaction the countries.

CO3. They understand globalization and Indian economy. And also understand the regional distribution of resource.

PAPER-XII NATURE & METHODOLOGY IN GEOGRAPHY

CO1. Gain knowledge about the historical evolution of geographical thoughts.

CO2. Understand the philosophy of deterministic, possibilistic and ecological approach.

CO3. Know about man-environment relation, regional location and space.

CO4. Know about physical and socio economic survey, how to collect primary and secondary data, questionnaire. It's helped them to research work in the future.

PAPER-XIII
SOCIAL & CULTURAL GEOGRAPHY

CO1. Evaluate the social issues such as- racism, cast conflict, social distance.

CO2. Understand the causes of social inequality and their impact on society.

CO3. Students can understand indicators of social well-being and quality of life.

CO4. Discuss about the social space, social groups and intra-urban mobility.

CO5. They can define the cultural region of the world.

CO6. Students can learn about rural settlement morphology, urban-industrial landscape.

CO7. Analysis the social set-up in Indian villages.

PAPER-XIV
OPTIONAL PAPER- 1
POPULATION GEOGRAPHY

CO1. Understand the nature of population. Know about composition of population, like- age, sex marital status, family, economic composition and language.

CO2. Analyze the global trend and patterns of population growth in developing countries, and migration patterns.

CO3. Evaluate the population growth theory and migration theories.

CO4. Understand the population policies in different countries.

OPTIONAL PAPER- 2
URBAN GEOGRAPHY

CO1. Students can explain the town and cities in India and World perspective.

CO2. Gain knowledge about the history of urbanization in the developed and developing countries.

CO3. They can understand the functional differences between rural and urban settlements.

CO4. Students can define the problems of urban area. And try to solve them.

CO5. They will know the characteristics of urban settlement.

CO6. To be able to identify the urban environmental problem and how to solve those problem.

PAPER-XV
PRACTICAL

CO1. Students learn to use of various meteorological instruments and also learn to interpret of the Indian daily weather report.

CO2. That's help students to predict the weather report in future.

CO3. They understand and gain knowledge about statistical techniques.

CO4. Students learn to use the pocket stereoscope and interpret the aerial photograph with the help of pocket stereoscope. Also develop their skill in remote sensing and G.I.S.

**PAPER-XVI
PRACTICAL**

CO1. Students learn to draw many cartography diagram and apply this is in different statistical data.

CO2. They can able to select the appropriate technique for graphical presentation of a data to their field work.

CO3. Their knowledge about primary and secondary data collection helps them to prepare their survey report.

**COURSE OUTCOMES (Cos) OF THE COURSE B.A GENERAL GEOGRAPHY
PART I
PAPER-I
PHYSICAL GEOGRAPHY**

Co1. The students will be familiar with the earth's interior.

Co2. Develop an idea about earth movements and the related topography.

Co3.Acquire knowledge about different types of rock and their origin .Influence of the rocks on land form and topography.

Co4. Getting familiar with the concept of hydrology

Co5. Understanding the processes of erosion, deposition and resulting landforms.

**PAPER -II
Climatology and Biogeography**

Co1.Students will learn about the atmosphere and the climate, pressure belts, wind systems, monsoon and their importance, difference between climate and weather.

Co3.Students can learn the significance of biogeography. They will also get to know about the factors responsible for plant growth.

**PAPER-III
PRACTICAL**

Co1. Developing an idea about scales and how to draw different types of scales; conversion of scales.

Co2. Forming a clear concept on map projections.

Co3. Topographical maps and its application in practical.

CO4. Getting familiar with underlying structures with the help of geological maps.

PART II
PAPER-IV
HUMAN GEOGRAPHY

CO1. -The students will be aware of the scope and contents of human geography.

CO2. Man's adaptation in various environments.

CO3. This particular module aims to develop an idea about the world population distribution and the factors that lead to uneven distribution of the population. It also focuses on the problem that is likely to arise due to an increase in the world population.

CO4. - Different types of settlement and characteristics and their definitions.

CO5. scope and content of social geography; race characteristics and distribution ;factors and characteristics of underdevelopment.

PAPER-V
ECONOMIC GEOGRAPHY

CO1.This module deals with the scope and content of economic geography; economic activities- primary, secondary, tertiary.

CO2. Focuses on the concept of agricultural geography; Cultivation and their association with different natural and human conditions of the following cereal crops: wheat, rice; plantation crops: rubber; agricultural systems of the world; commercial grazing –cattle and sheep rearing.

CO3. Definition of power resources; coal, petroleum and water

CO4. Discussing the factors behind the localization of industries; with special reference to the study of iron, steel and aluminum industry.

CO5. Definition and classification of resources and the infrastructural facilities required for resource development. Reference to resource conservation.

PAPER-VI
PRACTICAL

CO1. To learn graphically about the enlargement and reduction of maps.

CO2. Learning about chain surveying and prismatic surveying.

CO3. Getting to know superficially about remote sensing and aerial photo interpretation with the help of pocket stereoscope.

CO4. Necessity of field report in practical geography; collection of data and how to prepare a report from the data collected.

PART III
PAPER-VII
REGIONAL GEOGRAPHY

CO1. The module focuses on the regional geography of India.

- a. Physical relief
- b. Drainage
- c. Climate
- d. Soil
- e. Natural vegetation.

Their characteristics and distribution; deforestation and conservation of forest.

CO2. Also focuses on agriculture, power resources and industries of India.

CO3. Familiarizing the students with different concept of population geography like growth, distribution and migration. Also making them aware of the different ethnic groups residing in India (santhals ,naga and the bhils)

PAPER-VIII
PRACTICAL

CO1. Lessons on different statistical methods used in practical geography e.g. frequency polygon, cumulative frequency, mean, median and mode etc.

CO2. Lessons on cartograms like pie graph, bar graph, and age-sex pyramid etc.

CO3. Lessons on meteorological instruments like maximum and minimum thermometer, rain gauge, dry and wet bulb thermometer.