

**PROGRAMME AND COURSE OUTCOMES OF
GEOGRAPHY HONOURS (B.A. & B.SC.), UNDER CCF
2023-24**

PROGRAMME OUTCOME (PO):

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.
- 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 emphasizes on human- environment relationship.
- During the first phase of the programme, the students are trained in the advanced concepts of physical, economic and human geography and different techniques of map making.
- After completion of the basics in geography, the students concentrate on specific areas of the subject, on which they complete their field reports.
- In the final phase, a comprehensive view about the subject is developed. After completing the course, the students will be amply prepared for professional careers in geography and allied disciplines like GIS and Remote Sensing.
- Finally the students are ready to explore intricate research opportunities and competent students may opt for research and field oriented works to prove her worth.

PROGRAMME SPECIFIC OUTCOMES (PSO):

CURRICULUM AND CREDIT FRAMEWORK. (CCF): SYLLABUS IN GEOGRAPHY:

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.

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. Following are the outcomes after completion of the BA./BSc. Honours Programme in Geography:

1 .Acquiring 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.

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

3. 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 problem.

4. 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. This skill will help them to get jobs in the fields of mapping with specialized areas like **Survey of India, National Atlas** etc.

5. 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. This will develop skills in reading and interpreting **satellite imageries** for **landscape studies, weather forecast etc.**

6. 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.

7. Development of Observation Power: As a student of Geography Honours programme they will be capable to develop their observation power through field experience and in future they will be able to identify the socioenvironmental problems of a locality.

8. 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.

9. 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.

10. 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.

11. 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.

12. Develop Research Orientation: This curriculum is such designed that a research orientation will be automatically develop among students. An interest about the surroundings will be created in course of the 4-years' time period of the syllabus.

COURSE OUTCOME (CO) OF THE COURSE B.A/B.Sc. HONOURS

UNDER CCF

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

SEMESTER I

COURSE CODE: GEOG-H-CC-01-TH

COURSE TITLE: Physical Geography

COURSE OUTCOME:

- 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.
- Understanding the concept and application of scales and projections. Components and classification of maps are also to be understood.
- Acquire knowledge about the classification of weathering and agents of erosion as well as the fluvial processes and landforms
- Learn the interaction between the atmosphere and the earth surface. Understanding the importance of the atmospheric pressure and winds. It also helps to understand how atmospheric moisture works, atmospheric disturbances take place.
- Have knowledge about the formation, character and profile of different soil types
- Understanding plant adaptation and distribution in relation to water availability.

COURSE CODE: GEOG-H-CC-01-P

COURSE TITLE: Physical Geography Lab

COURSE OUTCOME:

- Construction of scales: Simple, comparative, diagonal and Vernier
- Delineation of drainage basins on survey of India topographical maps. Determining stream ordering and bifurcation ratio in a drainage basin.
- Identification of drainage and channel patterns from survey of India 1:50k topographical maps.
- Construction and interpretation of wind rose diagram

COURSE CODE: GEOG-H-SEC-01-TH

COURSE TITLE: Methods in Geography

COURSE OUTCOME:

- Learning the various research methodologies and data collection techniques, as well as their associated problems.
- Highlights the uses of different statistical techniques for the detail statistical analysis.
- Students can develop a thorough knowledge regarding different minor survey instruments.
- Students will learn the use of various mobile Apps through which they can collect some important data instantly.
- Students can also analyze different geographical phenomena with the help of remote sensing techniques.
- Students can acquire a detail concept regarding the spatial distribution, transport analysis and different cartographic techniques.

SEMESTER II

COURSE CODE: GEOG-H-CC-02-TH

COURSE TITLE: Human Geography

COURSE OUTCOME:

- 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.
- Explaining Human adaptation to environment: Case studies of Eskimo, Masai and Maori.
- Analyzing Population growth and distribution, composition; demographic transition.
- Analyzing Development–environment conflict.
- Types and patterns of rural settlements.
- Understanding rural house types in India.
- Understanding Morphology and hierarchy of urban settlements.

COURSE CODE: GEOG-H-CC-02-P

COURSE TITLE: Human Geography Lab

COURSE OUTCOME:

- Bringing out Spatial variation in continent- or country-level religious composition.
- Measuring arithmetic growth rate of population comparing two decadal datasets.
- Graphical representation and analysis of Types of age-sex pyramids (progressive, regressive, intermediate, and stationary).
- Analyzing Nearest neighbor analysis from Survey of India 1:50k topographical maps of plain.

INTER-DISCIPLINARY COURSE (IDC):

Interdisciplinary study involves combining frameworks and concepts from multiple disciplines to examine a theme or solve a problem from different perspectives. Here are some reasons why interdisciplinary learning is important:

- **Synthesis of Ideas:** Interdisciplinary study allows for the synthesis of ideas and characteristics from various disciplines. By working across boundaries of knowledge, students create new knowledge by drawing from different sources.
- **Transferable Skills:** Interdisciplinary learning addresses students' individual differences and helps develop essential, transferable skills. These skills include critical thinking, communication, and analysis, which are valuable throughout life and career.
- **Complex Problem-Solving:** Students gain the skillset to tackle complexity and change effectively. Interdisciplinary approaches empower them to explore connections between various disciplines, fostering creativity and critical thinking.

COURSE CODE: GEOD-IDC-01 TH

COURSE TITLE: Geomatics and Spatial Analysis:

COURSE OUTCOME:

- Students gain knowledge in different types of maps, their uses and basics of map-making.
- Scales, use and importance of scales in maps and also in daily life.
- GIS and its different functions in academics as well as in daily life.
- Students gain knowledge in different types of satellites, their functions and their significance in acquiring knowledge in capturing data of land use, weather forecast, defence etc.
- Students learn different methods of surveying- both analogue and digital which make them competent in capturing, analysing and interpreting data of field science