



**GOVERNMENT GENERAL DEGREE COLLEGE, NARAYANGARH**

**PROGRAMME OUTCOME (PO)  
&  
COURSE OUTCOME (CO)**

*(Based on Curriculum & Credit Framework for Undergraduate  
Programmes (CCFUP), 2023 & NEP, 2020)*

**ACADEMIC SESSION: 2023-2024**

**DEPARTMENT OF GEOGRAPHY**

# **B. SC. (HONOURS & MULTIDISCIPLINARY) IN GEOGRAPHY**

**(w.e.f. Academic Session 2023-2024)**

## **PROGRAMME OUTCOME (PO)**

1. To provide accurate knowledge of the Earth and its different components- soil, water, air.
2. 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.
3. 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.
4. Develops understanding of man and environment relationship and changing nature.
5. To get the idea of daily weather and climate system, consequences of climate change and most of all the causes and consequences of global warming which are the burning topic/problems of the present times.
6. To correlate the theoretical knowledge with practical curricula to develop a holistic idea on various landforms in the light of their evolution.
7. Conceptualizing the physical and cultural geography of west Bengal and the ethical considerations.
8. To learn the idea of making suitable questionnaire, data collection, tabulation and analysis and to make correlation of the physical and socio-economic features of any area by visiting and surveying the area.
9. Develops research skills among the learners.
10. To develop the soft skill of the students by introducing the computer and software oriented courses (GIS) which is now an essential requisite for the scholars who intend to pursue higher studies and research. Learners get hands on training on geospatial technology- GIS, GPS, and Remote Sensing and so on.
11. To secure a job at the end of the undergraduate programme. The careers for bachelor's degree holders in Geography can include Geography teacher, Research assistant/associate in projects related to environment, sustainability and social development, jobs related to Corporate Social Responsibility, travel and tourism, cartography, urban planner and Rural Development officer etc.

# **B. SC. (HONOURS & MULTIDISCIPLINARY) IN GEOGRAPHY**

**(w.e.f. Academic Session 2023-2024)**

## **PROGRAMME SPECIFIC OUTCOME (PSO)**

1. Acquire accurate knowledge of Earth's components including soil, water, and air, and their interrelationships.
2. Gain fundamental skills in geography as a spatial science, preparing students for careers in geospatial analysis, development, planning, mapping, and surveying.
3. Master emerging techniques in mapping and field-based data generation, aligning with contemporary trends in geographical research and applications.
4. Develop an understanding of the dynamic relationship between humans and the environment, and how this relationship evolves over time.
5. Understand daily weather and climate systems, the impacts of climate change, and the causes and consequences of global warming.
6. Correlate theoretical knowledge with practical observations to gain a comprehensive understanding of landform evolution.
7. Conceptualize the physical and cultural geography of West Bengal and consider the ethical implications of geographical research.
8. Learn to design questionnaires, collect and analyze data, and correlate physical and socio-economic features through field surveys.
9. Cultivate research skills through hands-on projects and fieldwork, enhancing analytical and investigative capabilities.
10. Develop proficiency in geospatial technologies including GIS, GPS, and Remote Sensing, essential for higher studies and research.
11. Prepare for diverse career opportunities such as Geography teacher, research assistant, roles in environment and sustainability projects, cartography, urban planning, and rural development.

# **B. SC. (HONOURS & MULTIDISCIPLINARY) IN GEOGRAPHY**

**(w.e.f. Academic Session 2023-2024)**

## **COURSE OUTCOMES (CO)**

### **SEMESTER-I**

#### **MAJOR- 1(CC-1) Geotectonic and Geomorphology (Theory and Practical)**

- CO-1 :** In this part students can learn about tectonic activity of the planet and as well as morphology of surface landforms.
- CO-2 :** Understand earth's tectonic and structural evolution.
- CO-3 :** The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes.
- CO-4 :** Develop an idea about concept of plate tectonics, and resultant landforms.
- CO-5 :** To make the students aware of the dynamic geomorphic processes responsible for the development of landforms of varied types and nature.
- CO-6 :** To apply scientific knowledge on landform development based on geomorphic concepts, principles and theories.
- CO-7 :** The students will come to know about the meaning and scope of geomorphology as a major branch of Physical Geography.
- CO-8 :** To learn the practical knowledge of the characteristics of Rocks and minerals and their identification.
- CO-9 :** Understanding topography, structure, relation between topography and structure, geological succession and geological history through construction of geological section on Horizontal, Homoclinal, Folded and faulted Structure of the Geological Maps

#### **SEC-1 Computer Basics and Applications (Practical)**

- CO-1:** Get a working knowledge of computer hardware and software.
- CO-2 :** Get an idea of managing folders and files.
- CO-3 :** Run an application, preferably, MS Word, MS Excel, MS PowerPoint

# MULTIDISCIPLINARY STUDIES WITH GEOGRAPHY

## **Major (Disc:A1/B1) Fundamental of Earth System Science**

- CO-1:** In this part students Understanding the functioning of earth system in real time and analyze how the natural and anthropogenic operating factors affect the development of landforms.
- CO-2 :** Develop an idea about the fundamentals of atmosphere and climatic classification.
- CO-3 :** Distinguish between the mechanisms that control these processes.
- CO-4 :** Can learn about different aspects of physical geography like hydrology, oceanography, climatology, and soil science.

## **Minor (Disc. –C1) Fundamental of Earth System Science**

- CO-1 :** In this part students Understanding the functioning of earth system in real time and analyze how the natural and anthropogenic operating factors affect the development of landforms.
- CO-2:** Develop an idea about the fundamentals of atmosphere and climatic classification.
- CO-3 :** Distinguish between the mechanisms that control these processes.
- CO-4 :** Can learn about different aspects of physical geography like hydrology, oceanography, climatology, and soil science.

## **SEMESTER -II**

### **Major-2P Cartographic Techniques (Practical)**

- CO-1:** They can learn about scale, maps, coordinate system, bearing, map projection and surveying.
- CO-2:** Actually they get an ability to prepare a scientific map of any place.
- CO-3:** Learn and Uses of different survey instruments like, Prismatic compass, Dumpy level, Theodolite etc
- CO-4:** Understanding the concepts of spheroid, ellipsoid and projection systems with special reference to UTM and WGS 84.
- CO-5:** Development of observation skills.
- CO-6:** Read and prepare maps.
- CO-7:** Comprehend locational and spatial aspects of the earth surface.
- CO-8 :** Use and importance of maps for regional development and decision making

### **SEC- 2 Coastal Management (Practical)**

- CO-1:** Understanding the various components and coastal morpho-dynamic variables.
- CO-2:** Can help pupil to develop mental imagination about the coast.
- CO-3:** Understanding the systematic interactions among terrestrial atmospheric and marine processes along the coast as a systematic whole.
- CO-4:** Understanding the problems of coastal erosion and other hazards in the context of global climatic change. and assessing coastal hazards and its management.
- CO-5:** Identifying the different environmental impacts and management of anthropogenic interventions.
- CO-6:** Analyzing the policies of coastal zone management, focussing on EEZ and CRZ.

# MULTIDISCIPLINARY STUDIES WITH GEOGRAPHY

## **Major (Disc:A1 /B1) Fundamental of Earth System Science**

- CO-1:** In this part students Understanding the functioning of earth system in real time and analyze how the natural and anthropogenic operating factors affect the development of landforms.
- CO-2:** Develop an idea about the fundamentals of atmosphere and climatic classification.
- CO-3:** Distinguish between the mechanisms that control these processes.
- CO-4:** Can learn about different aspects of physical geography like hydrology, oceanography, climatology, and soil science.

## **Minor-2 (Disc: -C2) Human Geography**

- CO -1:** Understanding the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations and gaining knowledge about major themes of Human Geography.
- CO-2:** Understanding the concept and evolution of human society.
- CO-3:** Identifying the different global population dynamics with reference to population growth and distribution of population.
- CO-4:** Examining the human societies and how they develop, their culture, economy and politics, all within the context of their environment.
- CO-5:** Knowing about population –resource relationship.
- CO-6:** Making the idea about the types, pattern and development of rural and urban settlement.
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