

DEPARTMENT OF GEOGRAPHY
BISWANATH COLLEGE
PROGRAMME OUTCOMES

Link to GU Syllabus:

1. BA/BSc. in Geography, Honours (CBCS):
<https://sites.google.com/a/gauhati.ac.in/syllabus-ug-cbcs/honours/geography>
2. Geography, Regular (CBCS) <https://sites.google.com/a/gauhati.ac.in/syllabus-ug-cbcs/regular/geography>
3. B.A. in Geography, Major & general (non-CBCS):
<https://sites.google.com/a/gauhati.ac.in/syllabus-ug-old/undergraduate-courses/tdc-geography-general>

PROGRAMME: BA/B.SC. GEOGRAPHY

1. Knowledge and Understanding:

- a. To Understand the Man- Environment relationship in various Physical Settings.
- b. Create an awareness of the impact of Man on the environment, society, and development outside the scientific community.
- c. Evaluation and assessment of plant and animal diversity.
- d. Understand about various Climatic phenomenons and their impact on the Globe.
- e. Value of biodiversity in terms of ecological balance and sustainable development.
- f. Application of *GIS* techniques in geography.
- g. Acquired statistical knowledge and their application in the subject.
- h. Understand about various economic activities of man and population scenario of the earth.

2. Intellectual Skills:

- a. Logical interpretation of problems related to social science.
- b. Dealing with various burning issues related to environment, human and sustainable development though internet.
- c. Developed various skills to control environmental problems.
- d. Demonstrate, solve and understand the major concepts in all disciplines of Geography.

- e. Solve the problem and also think rationally, independently and draw a logical and scientific conclusion.
- f. Capacity building for individual survey works related to nature and environment.

3. Practical Skills:

- a. Study on the various physical landforms and their evolution on the earth surface.
- b. Detail study on the ocean surface and their physical settings.
- c. Proper study on the various relief features on the earth surface.
- d. Ecological study of the local area.
- e. Scientific study on the changing earth surface through sophisticated practical instrument.

4. Transferable Skills:

- a. Use of information technology for accumulation and sharing of data.
- b. Dissemination of scientific ideas in writing and orally.
- c. Creation of team spirit.
- d. Access of E- library resources.
- e. Create awareness in the Human society.

5. Scientific Knowledge and problem analysis:

- a. Application of principles of basic science in studying and analysing problems and phenomena related to biological science.
- b. To inculcate the scientific temperament in the students and outside the scientific community.

6. Usage of Modern tools:

- a. Practical application of modern techniques/ instruments in Physical geography and Human geography.

7. Ethics:

- 1. Application of moral and ethical principles to mitigate environmental issues and biodiversity conservation.
- 2. Basic knowledge on environment and sustainable development will create responsible citizens.

Signature of Head
Deptt. Of Geography

DEPARTMENT OF GEOGRAPHY
BISWANATH COLLEGE
Course Specific Outcomes (CBCS/ NON CBCS)

BA/B.Sc. Geography Honours:

Biswanath College is an affiliated college of Gauhati University. Hence the college has to follow the course curriculum of the affiliating university. Gauhati University course curriculum for geography Honours under CBCS has mentioned some course outcomes while designing the curriculum. However, the college expects more outcomes from the course. Course specific outcomes of geography Honours, CBCS is summarized below.

1. Semester I:

GGY-HC-1016: Geomorphology

- a. To provide a general idea about the topographic and surfacial characteristics of the earth's surface to the students.
- b. To make the students aware of the dynamic geomorphic processes responsible for the development of landforms of varied types and nature.
- c. To apply scientific knowledge on landform development based on geomorphic concepts, principles and theories.
- d. The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes.
- e. The students will come to know about the meaning and scope of geomorphology as a major branch of Physical Geography.

- f. After gaining knowledge based on the contents embodied in this paper, the students will be able to realize the importance of geomorphological knowledge as applied in various developmental activities executed in different areas.

GGY – HC- 1026: Cartographic Techniques

- a. 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.
- b. Understanding the importance of various cartographic techniques in geographical study.
- c. General understanding of map type, map scale and map content.
- d. An acquaintance of different cartographic techniques for representation of various facets of physical and human geographic data of any area.

2. Semester II

GGY- HC- 2016: Human Geography

- a. The paper intends to introduce students to human geography and how humankind transforms and gets transformed by geographic space.
- b. It seeks to develop new insights among students on the relevance of human-environmental relationships and how a spatial perspective shapes these relationships.
- c. The subject will be useful for students in developing ideas on human-environment issues.

GGY-HC-2026: Climatology and Biogeography

- a. This paper is a core paper that intends to introduce students to the rationale underlying climatological studies in geography.
- b. It seeks to develop new insights among students on the relevance of climatic variables on climate change.
- c. This paper intends to develop an understanding in the physical and human factors responsible for the distribution, conservation, and restriction of living organisms on the earth surface.
- d. The paper will be useful for students in developing ideas on climate related aspects of geographical analyses.

- e. The paper will help provide theoretical insights and perspectives to students if they wish to pursue a research programme in future.
- d. Students will develop a basic understanding of the introductory concepts in biogeography.

3. Semester III

GGY-HC- 3016: Economic Geography

- a. This is a core paper that intends to introduce students to the principles of economic geography and associated patterns and processes of major economic activities in the world.
- b. It seeks to develop new insights among students on the relevance of economy geography and associated problems in contemporary times.
- c. The paper will be useful for students in developing ideas on how geographical aspects organise economic space and will offer perspectives to students if they wish to pursue a research programme.

GGY-HC-3026: Geography of India with special reference to N.E. India

- a. This is a core paper which intends to introduce students to India as a geographical entity.
- b. It seeks to develop new insights among students on significant geographical dimensions of the country along with its north-eastern part.
- c. A field study is incorporated to make the students understand regional diversity of India with respect to its land, people and economy.
- d. The paper will be useful for students in developing understanding on Indian geography and its various dimensions.

GGY-HC-3036: Quantitative Methods in Geography

- a. The paper Quantitative Methods in Geography throws light on the importance of data in geography. It deals with the methods and techniques of data collection, data tabulation, data interpretation and analysis through the application of some basic statistical measures. This paper provides an understanding of the pure and applied nature of geography along with the key elements in the discipline.
- b. Thorough understanding of the statistical methods and techniques used in geographical studies;
- c. Understanding of tabulation, analysis and interpretation of geographical data.

GGY-SE-3054: Thematic Cartography (Skill Enhancement Course)

- a. This course on Cartographic Methods 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 and methods.
- b. Understanding the importance of various cartographic techniques in geographical study.
- c. General understanding of map type, map scale and map content.
- d. An acquaintance of different cartographic techniques for representation of various facets of physical and human geographic data of any area.

4. Semester IV:

GGY-HC- 4016: Environmental Geography and Disaster management

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

GGY-HC- 4026: Population and Settlement Geography

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

GGY-HC-4036: Remote Sensing Techniques and GIS

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

GGY-SE-4014: Advanced Statistical Techniques for Spatial Analysis

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

5. Semester V: (According to CBCS)

GGY - HC -5016: Regional Planning and Development

- a. This paper will introduce students to the rationale underlying the relevance of balanced regional development and spatial inequalities in geography
- b. It seeks to develop new insights among students on the issue of development and disparities among geographical regions
- c. The paper will be useful for students in developing ideas on disparities within and between countries and their fallout.
- d. The paper will help provide theoretical insights and perspectives to students if they wish to pursue a research programme in future.

GGY-HC-5026: Social and Political Geography

- a. The paper will be useful for the students in developing ideas on basic concept of social geography.
- b. It deals with the social categories like- caste, class, religion, ethnicity, and gender and their spatial distribution.
- c. The paper intends to provide basic concept of State, Nation and Nation State.
- d. The paper will be helpful for the students to know about the various political phenomenon of a county.
- e. It helps the learner to understand various conflicts among the countries of the world.
- f. The paper will be useful for the students preparing for competitive exams including state civil service exam and other national level exam.

GGY-HE-5016: Climate Change: Vulnerability and Adaptation

- a. To make the students understand that climate change is a continuous process in both global and regional environments.
- b. To impart information and knowledge about the impacts of climate change and the different modes of human adaptation to climate change.
- c. To educate the students that climate change is a global issue and its management needs global concern and co-operation. Course outcomes.

- d. The students will acquire knowledge and skill to detect the noticeable impacts of climate change in their vicinity.
- e. The students may join various govt. and non-govt. agencies dealing with climate change study and mitigation.
- f. The students will be able to know the extent to which the people and their economic activities are vulnerable to climatic changes and may suggest some adaptation strategies to the affected people, especially in the agricultural sector.

GGY - HC –5056: Urban Geography

- a. This paper introduces students to the field of urban geography and its specificities.
- b. It seeks to develop new insights among students on the relevance of an urban economy and geography and associated problems in a rapidly urbanizing world.
- c. The paper will be useful for students in developing ideas on how geographical factors organize urban spaces and how geographers seek to address city specific problems and issues.
- d. It will build skills for students seeking to enrol in a research programme and/or provide openings for them with urban/city planning agencies.

6. Semester VI

GGY - HC – 6016: Geographical Thought

- a. This paper is a core paper that intends to introduce students to philosophical and methodological issues in the development of the discipline of geography.
- b. To assess the nature and trend of ancient, modern and post-modern trends in the field of geography
- c. The paper will be useful for students in understanding perspectives on the development and contemporary trends in geography and its systematic study.

GGY - HC - 6026 Geography of Resources and Development

- a. This theory course basically deals with concept of resource and its classification, and the distribution, utilization and management of land, water, forest and energy resources. It also focuses on the natural resource base of North-East India and its problems of conservation and management. Besides, it also provides basic idea about sustainable development of resources.
- b. Understanding the basic concept of resource and its various types and their utilities.
- c. Acquiring basic information about potentials and management of resources like land, water, forest and power in global context.

d. Understanding the prevailing natural resource potential of North-East India and problems of management.

GGY - HE – 6036: Sustainable Development

a. The paper highlights on the basics of sustainability including the millennium development goals. It also focuses on sustainable and inclusive development along with environmental management. Sustainable development policies and programmes including the principles of good governance are also discussed in the paper.

b. To understanding about the concept of sustainability, sustainable development and inclusive development.

c. Knowledge of sustainable development policies and programmes.

d. Deeper knowledge of the national environmental policy, and the principles of good governance.

GGY - HE – 6044: Research Methods and Project Work

a. 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.

b. 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.

7. Semester V (According to Non- CBCS)

GGY- HC- 501: Concept of Regional Development Planning and Geography of Development of USA and JAPAN

a. This paper will introduce students to the rationale underlying the relevance of balanced regional development and spatial inequalities in geography.

b. It seeks to develop new insights among students on the issue of development and disparities among geographical regions of USA and JAPAN.

c. The paper will be useful for students in developing ideas on disparities within and between countries and their fallout.

d. This paper provides information and ideas of distribution of Resources among the developed countries of the world like USA and JAPAN.

GGY-HC- 502: Regional Geography of India and SAARC Nations

- a. This is a core paper which intends to introduce students to India as a geographical entity.
- b. It seeks to develop new insights among students on significant geographical dimensions of the country.
- c. A field study is incorporated to make the students understand regional diversity of India with respect to its land, people and economy.
- d. The paper will be useful for students in developing understanding on Indian geography and its various dimensions.

GGY-HC-503: Cartographic and Quantitative Methods

- a. 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.
- b. Understanding the importance of various cartographic techniques in geographical study.
- c. General understanding of map type, map scale and map content.
- d. An acquaintance of different cartographic techniques for representation of various facets of physical and human geographic data of any area.
- e. Thorough understanding of the statistical methods and techniques used in geographical studies;
- f. Understanding of tabulation, analysis and interpretation of geographical data.

GGY-HC-504: Population and Settlement Geography

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

GGY-HC- 505: Practical on Cartographic Methods (Surveying and Map Works)

- a. This course on Surveying Techniques provides a general understanding of the field of survey including its modern tools and importance in geographic study. It more particularly focuses on various types of survey instruments; principles of different types of surveying, methods of carrying out survey for preparation of plan in different environment and representation of various objects in the plan. Course outcomes
- b. Understanding the importance of various surveying techniques in geographical study.
- c. General understanding of preparation of different types of plan and map.
- d. An acquaintance of different surveying techniques for representation of various objects of earth's surface.

8. Semester VI:

GGY-HC-601: Environment and Development

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

GGY-HC-602: Social and Political Geography

- a. The paper will be useful for the students in developing ideas on basic concept of social geography.
- b. It deals with the social categories like- caste, class, religion, ethnicity, and gender and their spatial distribution.
- c. The paper intends to provide basic concept of State, Nation and Nation State.
- d. The paper will be helpful for the students to know about the various political phenomenon of a country.
- e. It helps the learner to understand various conflicts among the countries of the world.
- f. The paper will be useful for the students preparing for competitive exams including state civil service exam and other national level exam.

GGY-HC- 603: Regional Geography of North-east India with special focus on ASSAM

- a. This is a core paper which intends to introduce students to North- East India as a geographical entity.
- b. It seeks to develop new insights among students on significant geographical dimensions of the country along with its north-eastern part.
- c. A field study is incorporated to make the students understand regional diversity of North- East India with respect to its land, people and economy.
- d. The paper will be useful for students in developing understanding on Assam geography and its various dimensions.

GGY-HC- 604: Principles and Applications of Remote Sensing, GIS and GPS

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