

PATRASAYER MAHAVIDYALAYA

COURSE & PROGRAMME

OUTCOMES OF

GEOGRAPHY HONOURS

(B.A. & B.Sc. CBCS Three Year, Six Semester Degree Programmes Under Bankura University)

Geography is the study of man- environment relationship. Geographers want to know 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.

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.

**DEPARTMENT OF GEOGRAPHY
BANKURA UNIVERSITY (WEST BENGAL)**

B.Sc (Honours)CBCS SYLLABUS, 2018 ONWARDS

Semester	Course Code	Course Title	No. of Credit
I	SHGEO/101/C-1T	Geo-Tectonics and Geomorphology	6
	SH/102/C-2P	Cartographic Techniques	6
	SHGEO/103/GE-1	Physical Basis of Earth	6
II	SHGEO/201/C-3T	Human Geography	6
	SHGEO/202/C-4P	Cartograms and Thematic Mapping Lab	6
	SHGEO/203/GE-2	Human Geography	6
III	SHGEO/301/C-5T	Climatology	6
	SHGEO/303/C-6T	Geography of India	6
	SHGEO /302/C-7P	Statistical Methods in Geography Lab	6
	SHGEO/305/SEC-1	Computer Basics and Computer Applications	2
	SHGEO /304/GE-3	Maps and Diagrams	6
IV	SHGEO/401/C-8T	Regional Planning and Development	6
	SHGEO/402/C-9T	Geography of Economic Activities	6
	SHGEO/403/C-10P	Environmental Geography Lab	6
	SHGEO/405/SEC- 2	Geographical Information System and GPS	2
	SHGEO/404/GE-4	Economic Geography	6
V	SHGEO/501/C-11T	Evolution of Geographical Thought	6
	SHGEO/502/C-12P	Remote Sensing Lab	6
	SHGEO /503/DSE-1	Hydrology and Oceanography	6
	SHGEO /504/DSE-2	Cultural and Settlement Geography	6
	SHGEO/504/DSE-2	Urban Geography	
VI	SHGEO/601/C-13T	Disaster Management	6
	SHGEO/602/C-14P	Research Methodology and Field Work Lab	6
	SHGEO /603/DSE-3	Soil and Biogeography	6
	SHGEO/604/DSE-4	Population Geography	6
	SHGEO/604/DSE-4	Geography of Health and Wellbeing	

COURSE OUTCOMES

[Honours]

SEMESTER-I

SHGEO/101/C-1T Geo-Tectonics and Geomorphology

Course Outcomes

- CO1. They able to understand the theories of origin and evolution of the earth.
- CO2. They acquire knowledge about the geological time history .
- CO3 They learn about the internal structure of the earth.
- CO4. Develop the idea about the plate,fault, fold etc.
- CO5. Gain Knowledge about the Continental Drift theory, sea floor spreading, morphoclimatic zones.

SHGEO/102/C-2P Cartographic Techniques

Course Outcomes

- CO1. They able to understand the concept of scale, types of scale, scale enlargement and reduction.
- CO2. They gain knowledge about the different types of map projection.
- CO3. Students learn about the different types of surveying instruments.

SHGEO/103/GE-1 Physical Basis of Earth

Course Outcomes

- CO1.They understand the theories of origin and evolution of the earth.
- CO2.Acquire knowledge about the geological time history .
- CO3.Learn about the internal structure of the earth.
- CO4.Develop the idea about the plate,fault, fold etc.
- CO5.Gain Knowledge about the Continental Drift theory, sea floor spreading, morphoclimatic zones.

SEMESTER-II

SHGEO/201/C-3T Human Geography

Course Outcomes

- CO1. They gain knowledge about major themes of human Geography.
- CO2. Acquire knowledge on the history and evolution of humans, population growth, distribution and demographic Transition Model.

- CO3. Understand the processes of Human adaptation to environment.
- CO4. Develop an idea about space and society, race and ethnicity.

SHGEO/202/C-4P Cartograms and Thematic Mapping Lab

Course Outcomes

- CO1. They able to comprehend the concept of geographical data and representation of data through cartograms.
- CO2. Interpret topographical maps.
- CO3. Develop an idea about different types of thematic mapping techniques.

SHGEO/203/GE-2 Human Geography

Course Outcomes

- CO1. they gain knowledge about major themes of human Geography.
- CO2. Acquire knowledge on the history and evolution of humans, population growth, distribution and demographic Transition Model.
- CO3. Understand the processes of Human adaptation to environment.
- CO4. Develop an idea about space and society, race and ethnicity.

SEMESTER-III

SHGEO/301/C-5T Climatology

Course Outcomes

- CO1. They able to understand the elements of weather and climate, insolation and global heat budget.
- CO2. Factors like insolation, heat budget, horizontal and vertical distribution of temperature and
- CO3. Inversion of temperature were also taught scientifically.
- CO4. Learn to origin and characteristics of Tropical and Temperate Cyclone.
- CO5. To analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.

SHGEO/303/C-6T Geography of India

Course Outcomes

- CO1. They have an idea on physiographic division, climate, soil, vegetation, population distribution of India.
- CO2. To enhance the knowledge on Green revolution and its consequences.
- CO3. Understanding the Geography of West Bengal

SHGEO /302/C-7P Statistical Methods in Geography Lab

Course Outcomes

- CO1.They learn about the significance of statistics in geography. Understand the importance of use of data in geography
- CO2.Recognize the importance and application of Statistics in Geography
- CO3.Represent and Interpret the frequency distribution (Histogram, Polygon, Curve, and ogives).
- CO4.Know about different types of sampling.
- CO5.To Know the calculation of mean, median & mode.
- CO6.Gain knowledge about association and correlation.

SHGEO/305/SEC-1 Computer Basics and Computer Applications

Course Outcomes

- CO1They able to know the basic computation of rank, mean, median, mode, standard deviation, moving average etc.
- CO2.Easily calculate the data and represent it through scatter diagram and histogram.
- CO3.Clear the concept of internet surfing, cloud computing and drive sharing.

SHGEO /304/GE-3 Maps and Diagrams

Course Outcomes

- CO1They understand the concept of scale, types of scale, scale enlargement and reduction.
- CO2.Gain knowledge about the different types of map projection.
- CO3.Students learn about the different types of surveying instruments.

SEMESTER-IV

SHGEO/401/C-8T Regional Planning and Development

Course Outcomes

- CO1. Understand and identify regions as an integral part of geographical study.
- CO2. Appreciate the varied aspects of development and regional disparity, in order to formulate measures of balanced development.
- CO3.Analyzing the concept of regions and regionalization.
- CO4Studying typical physiographic, planning, arid and biotic regions of India. Understanding the detailed geography of India
- CO5.Gain knowledge about definition of region, evolution and types of regional planning. Develop an idea about choice of a region for planning.

- CO6. Build an idea about theories and models for regional planning. Know about measuring development indicators.

SHGEO/402/C-9T Geography of Economic Activities

Course Outcomes

- CO1. Understand the concept of economic activity, factors affecting location of economic activity.
- CO2. Gain knowledge about different types of Economic activities
- CO3. Assess the significance of Economic Geography, the concept of economic man and theories of choice.
- CO4. Analyze the factors of location of agriculture and industries.
- CO5. Understand the evolution of varied types of economic activities.
- CO6. Map and interpret data on production, economic indices, transport network and flows.

SHGEO/403/C-10P Environmental Geography Lab

Course Outcomes

- CO1. Provides knowledge for the environmental issues which helps to understand the problems of environment and their proper management
- CO2. Gain knowledge about concept, scope of environmental geography and components of environment.
- CO3. Develop an idea about human-environment relationships.
- CO4. Build an idea about ecosystem.
- CO5. Know about environmental programmes and policies.

SHGEO/405/SEC- 2 Geographical Information System and GPS

Course Outcomes

- CO1. Training in the use Geographic Information System (GIS) software for contemporary mapping skills.
- CO2. Apply GIS to the preparation of geo-referencing and digitization.
- CO3. Scientific understanding of GIS and GPS
- CO4. Prepared layout map using GIS Technology.

SHGEO/404/GE-4 Economic Geography

Course Outcomes

- CO1. Understand the concept of economic activity, factors affecting location of economic activity.
- CO2. Gain knowledge about different types of Economic activities

- CO3. Analyze the factors of location of agriculture and industries.
- CO4. Understand the evolution of varied types of economic activities.

SEMESTER-V

SHGEO/501/C-11T Evolution of Geographical Thought

Course Outcomes

- CO1. Perceive the evolution of the philosophy of Geography.
- CO2. Appreciate the contribution of German, British, American and Indian School in Geography.
- CO3. Discussing the evolution of geographical thought from ancient to modern times.
- CO4. Establishing relationship of Geography with other disciplines and man-environment relationships.
- CO5. Analyzing modern and contemporary principles of Empiricism, Positivism, Structuralism, Human and Behavioral Approaches in Geography.

SHGEO/502/C-12P Remote Sensing Lab

Course Outcomes

- CO1. Have knowledge of the principles of remote sensing, sensor resolutions and image referencing schemes.
- CO2. Interpret satellite imagery and understand the preparation of false color composites from them.
- CO3. Introduction of Basic Concepts of Remote Sensing initiated.
- CO4. Understand the Digital Image Processing System.

SHGEO /503/DSE-1 Hydrology and Oceanography

Course Outcomes

- CO1. Analysis the concepts of Hydrology and Oceanography
- CO2. Evaluate the role of the global hydrological cycle.
- CO3. Studying the behavior and characteristics of the global oceans.
- CO4. Identify marine resources and characteristics of ocean waters.
- CO5. To develop the concept of T-S Diagram.
- CO6. Develop the idea of Ground water occurrence and storage, run-off etc.

SHGEO /504/DSE-2 Cultural and Settlement Geography

Course Outcomes

- CO1. Understand the scope and content of cultural geography

- CO2.Trace the development of cultural geography in relation to allied disciplines
- CO3.Understand the concept of cultural hearth and realm, cultural diffusion, diffusion of religion
- CO4.Develop an understanding of cultural segregation and cultural diversity, technology and development
- CO5.Acquire knowledge about Rural settlements- Definition, nature and characteristics
- CO6.Analyze the morphology of rural settlements
- CO7.Learn the rural house types, census categories of rural settlements and idea of social segregation
- CO8.Develop the skill of mapping language distribution of India

SHGEO/504/DSE-2 Urban Geography

Course Outcomes

- CO1.Trace the origin of urban places over time and analyze the factors, stages and characteristics of these places
- CO2.Analyze the theories of urban evolution and growth, Hierarchy of urban settlements
- CO3.Understand the various aspects of urban place, location, site and situation; Rank-size rule and Law of primate city
- CO4.Understand the patterns of urbanization in developed and developing countries
- CO5. Understand the ecological processes of urban growth; urban fringe; city-region
- CO6.Identify and analyze the problems of housing, slums and civic amenities
- CO7.Understand the patterns and trends of urbanization in India.

SEMESTER-VI

SHGEO/601/C-13T Disaster Management

Course Outcomes

- CO1.Understand the nature of hazards and disasters.
- CO2.Assess risk, perception and vulnerability with respect to hazards.
- CO3.Prepare hazard zonation maps.
- CO4.Assessing the nature, impact and management of major natural and man-made hazards affecting the Indian subcontinent.

SHGEO/602/C-14P Research Methodology and Field Work Lab

Course Outcomes

- CO1. Have expertise in identification of area of study, methodology, quantitative and qualitative analysis, and conclusions to be drawn about the area – fundamental to geographical research.
- CO2. To know the significance of research in geography.
- CO3. To prepare a field data book.
- CO4. To experience the field work.
- CO5. Conducting field excursions and preparation of field report on research on problem in different areas of India

SHGEO /603/DSE-3 Soil and Biogeography

Course Outcomes

- CO1. Have knowledge about the character and profile of different soil types.
- CO2. Understand the impact of man as an active agent of soil transformation, erosion and degradation.
- CO3. Understand the significance of soil properties.
- CO4. Understand the varied ecosystems and classify them.
- CO5. Recognize the significance of biogeochemical cycles and biodiversity.

SHGEO/604/DSE-4 Population Geography

Course Outcomes

- CO1. Trace the development of population geography in relation to demography.
- CO2. Understand the population composition and characteristics.
- CO3. Understand the measurement of fertility and mortality.
- CO4. Easily compare the population policies in developed and less developed countries.

SHGEO/604/DSE-4 Geography of Health and Wellbeing

Course Outcomes

- CO1. Understand the scope and content of medical geography.
- CO2. Identify air and water pollution, household and municipal waste.
- CO3. Analyse different types of diseases and their geographical distribution.
- CO4. Trace the effects of climate change on weather elements.

PROGRAMME OUTCOMES [HONOURS]

- **PO1.**They able to understand the scope and evolution of the diverse discipline of Geography and its relation with other discipline.
- **PO2.**They explain societal relevance of geographical knowledge and apply it to real world human- environment issues.
- **PO3.**they able to know the endogenetic and exogenetic forces which will help them to understand their surrounding circumstances.
- **PO4.**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.
- **PO5.**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.
- **PO6.**They easily test the soil pH , organic carbon, that will help them to know the soil either acidic or alkaline which soil is suitable for agriculture and how can soil be made suitable for agriculture.
- **PO7** In Geographic Information System classes, students learn about application of GIS, digital mapping, spatial analysis, data collection and mining, and usage of GIS in public policy.
- **PO8.** Graduates in this field have several career options in various specialization. For example, Survey of India, Geological Survey of India, Mining, Weather Forecasting Department, Surveying, indian civil services.
- **PO9.** After completion of this course, graduate students may also join the post graduate course on this field or related field.
- **PO10.** 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.
- **PO11.**The programme will provide encouragement among students to pursue a career in Geoinformatics in future.

- **PO12.**Students apply geographical knowledge in their day to day life like being alert about disasters, weather and climate data, COURSE OUTCOME

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B.Sc (Programme)CBCS SYLLABUS, 2018 ONWARDS

Semester	Course Code	Course Title	No. of Credit
I	SPGEO/101/C-1A	Physical Basis of Earth	6
II	SPGEO/201/C-1B	Human Geography	6
III	SPGEO/301/C-1C	Maps and Diagrams	6
	SPGEO/304/SEC-1	Computer Basics	2
IV	SPGEO/401/C-1D	Economic Geography	6
	SPGEO/404/SEC-2	Computer Application	2
V	SPGEO/501/DSE-1A	Hydrology and Oceanography	6
	SPGEO/501/DSE-1A	Urban Geography	
	SPGEO/504/SEC-3	Remote Sensing	2
VI	SPGEO/601/DSE-1B	Soil and Biogeography	6
	SPGEO/601/DSE-1B	Population Geography	
	SPGEO/604/SEC-4	Geographic Information System	2

**COURSE OUTCOMES
[PROGRAMME]**

SEMESTER-I

SPGEO/101/C-1A Physical Basis of Earth

Course Outcomes

- **CO1.**They able to understand the theories of origin and evolution of the earth.
- **CO2.**Acquire knowledge about the geological time history.
- **CO3.**Learn about the internal structure of the earth.

- CO4. Develop the idea about the plate, fault, fold etc.
- CO5. They gain Knowledge about the Continental Drift theory, sea floor spreading, morphoclimatic zones.

SEMESTER-II

SPGEO/201/C-1B Human Geography

Course Outcomes

- CO1. They gain knowledge about major themes of human Geography.
- CO2. Acquire knowledge on the history and evolution of humans, population growth, distribution and demographic Transition Model.
- CO3. Understand the processes of Human adaptation to environment.
- CO4. Develop an idea about space and society, race and ethnicity.

SEMESTER-III

SPGEO/301/C-1C Maps and Diagrams

Course Outcomes

- CO1. They able to understand the concept of scale, types of scale, scale enlargement and reduction.
- CO2. Gain knowledge about the different types of map projection.
- CO3. Students learn about the different types of surveying instruments

SPGEO/304/SEC-1 Computer Basics

Course Outcomes

- CO1. They understand the basics of computer i.e. concepts of hardware, software, operating system.
- CO2. They able to create power point presentation.
- CO3. They able to know Microsoft word.

SEMESTER-IV

SPGEO/401/C-1D Economic Geography

Course Outcomes

- CO1. Understand the concept of economic activity, factors affecting location of economic activity.

- CO2.Gain knowledge about different types of Economic activities
- CO3.Analyze the factors of location of agriculture and industries.
- CO4.Understand the evolution of varied types of economic activities.

SPGEO/404/SEC-2 Computer Application

Course Outcomes

- CO1.Know the basic computation of rank, mean, median, mode, standard deviation, moving average etc.
- CO2.Easily calculate the data and represent it through scatter diagram and histogram.
- CO3.Clear the concept of internet surfing, cloud computing and drive sharing.

SEMESTER-V

SPGEO/501/DSE-1A Hydrology and Oceanography

Course Outcomes

- CO1.They able to analysis the concepts of Hydrology and Oceanography
- CO2.Evaluate the role of the global hydrological cycle.
- CO3.Studying the behavior and characteristics of the global oceans.
- CO4.Identify marine resources and characteristics of ocean waters.

SPGEO/501/DSE-1A Urban Geography

Course Outcomes

- CO1.They easily trace the origin of urban places over time and analyze the factors, stages and characteristics of these places
- CO2.Analyze the theories of urban evolution and growth, Hierarchy of urban settlements
- CO3.Understand the various aspects of urban place , location, site and situation; Rank-size rule and Law of primate city
- CO4.Understand the patterns of urbanization in developed and developing countries

SPGEO/504/SEC-3 Remote Sensing

Course Outcomes

- CO1.Have knowledge of the principles of remote sensing, sensor resolutions and image referencing schemes.
- CO2.Interpret satellite imagery and understand the preparation of false color composites from them.

- CO3.Introduction of Basic Concepts of Remote Sensing initiated.

SEMESTER-VI

SPGEO/601/DSE-1B Soil and Biogeography

Course Outcomes

- CO1.Have knowledge about the character and profile of different soil types.
- CO2.Understand the impact of man as an active agent of soil transformation, erosion and degradation.
- CO3.Understand the significance of soil properties.
- CO4.Understand the varied ecosystems and classify them.

SPGEO/601/DSE-1B Population Geography

Course Outcomes

- CO1.Trace the development of population geography in relation to demography.
- CO2.Understand the population composition and characteristics.
- CO3.Understand the measurement of fertility and mortality.

SPGEO/604/SEC-4 Geographic Information System

Course Outcomes

- CO1.Training in the use Geographic Information System (GIS) software for contemporary mapping skills.
- CO2.Apply GIS to the preparation of geo-referencing and digitization.
- CO3.Prepared layout map using GIS Technology.

PROGRAM OUTCOMES [PROGRAMME]

- PO1.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.
- PO2.They will be able to acquire the knowledge of Human Geography and will correlate it with their practical life.

- **PO3.**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.
- **PO4.**They will learn how to prepare map based on GIS by using the modern geographical map making techniques.
- **PO5.**The programme will provide encouragement among students to pursue a career in Geoinformatics in future
- **PO6.**The programme will build a sound geographical base in the students which will immensely help them while preparing for any competitive exams.
- **PO7.**The programme deals extensively on environment and man-nature relationship. This will create a sense of awareness and social responsibility among the students towards the environment.
- **PO8.**Get information about the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc.
- **PO9.**Students apply geographical knowledge in their day to day life like being alert about disasters, weather and climate data, COURSE OUTCOME.
- **PO10.**Students learn about various economic activities of man and their spatial temporal distribution.

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