

**RANIGANJ GIRLS' COLLEGE  
DEPARTMENT OF GEOGRAPHY**

**COURSE LEARNING OUTCOMES  
LEARNING OUTCOME BASED CURRICULUM  
FRAMEWORK (LOCF)  
UNDER THE  
CHOICE BASED CREDIT SYSTEM (CBCS)  
OF  
KAZI NAZRUL UNIVERSITY**

**BSC HONOURS IN GEOGRAPHY**  
**TABLE 1: COURSE LEARNING OUTCOMES**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>COURSE TYPE</b>	<b>COURSE LEARNING OUTCOMES</b>
<b>UG SEMESTER I (HONOURS)</b>			
BSCHGEOC101	GEOMORPHOLOGY	CORE (THEORY)	1. Understand the functioning of landform systems in real time and analyze how the natural and anthropogenic operating factors affects the development of landforms 2. Distinguish between the mechanisms that control these processes 3. Assess the role of structure, stage and time in shaping the landforms, interpret geological maps and apply the knowledge in geographical research.
BSCHGEOC102	CARTOGRAPHIC TECHNIQUES	CORE (PRACTICAL)	1. Understand the importance of scale in geography. 2. Read and prepare maps, comprehend locational and spatial aspects of the earth surface. 3. Use and importance of maps for regional development and decision making.
BSCHGEOGE101	DISASTER MANAGEMENT	GENERIC ELECTIVE (THEORETICAL)	1. Gain a perspective of disasters and various dimensions of disaster management 2. Have comprehensive knowledge of various natural and manmade disasters in India 3. Examine the response and mitigation measures of disasters
BSCHGEOGE102	GEOGRAPHY OF TOURISM & PILGRIMAGE	GENERIC ELECTIVE (THEORETICAL)	1. Equip with a basic understanding of nature and scope, trends and patterns of various types of tourisms. 2. Have sound knowledge on

			<p>geographical, environmental and socio-cultural aspects of tourism in India.</p> <p>3. Apply the principles of Geo-tourism and analyse the prospects and problems associated with pilgrimage tourism.</p>
<b>UG SEMESTER II (HONOURS)</b>			
BSCHGEOC201	GEOGRAPHY OF HUMAN & CULTURAL LANDSCAPE	CORE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. To Know the diversity of changing human and cultural landscape.</li> <li>2. Understand of population growth and its implications.</li> <li>3. Understand the diversity of culture.</li> </ol>
BSCHGEOC202	STATISTICAL METHOD IN GEOGRAPHY	CORE (PRACTICAL)	<ol style="list-style-type: none"> <li>1. Understand the basics of data collection and sampling.</li> <li>2. Comprehend the representation and interpretation of the results.</li> <li>3. Practice results in research.</li> </ol>
BSCHGEOGE201	GEOSPATIAL INFORMATION TECHNOLOGY	GENERIC ELECTIVE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Learn the basic concepts of geographical information technology.</li> <li>2. Acquire knowledge on data structure, interpolation, modelling, functions and working of geographical information technology</li> <li>3. Apply the geographical information technology for certain purpose.</li> </ol>
BSCHGEOGE202	HUMAN & ENVIRONMENT SYSTEM	GENERIC ELECTIVE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Understand the fundamental concepts of human-environment system.</li> <li>2. Assess the vulnerability, risk and resilience issues associated with the human-environment interrelationships.</li> <li>3. Develop possible solutions for addressing the contemporary sustainability challenges.</li> </ol>

<b>UG SEMESTER III (HONOURS)</b>			
BSCHGEOC301	CLIMATOLOGY & OCEANOGRAPHY	CORE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Understand the elements of weather and climate and its impacts at different scales.</li> <li>2. Comprehend the climatic aspects and its bearing on planet earth.</li> <li>3. Understand the oceanic process and availability of resources.</li> </ol>
BSCHGEOC302	GEOGRAPHY OF INDIA	CORE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Understand the physical profile of the country</li> <li>2. Study the resource endowment and its spatial distribution and utilization for sustainable development</li> <li>3. Synthesise and develop the idea of regional dimensions at present.</li> </ol>
BSCHGEOC303	FUNDAMENTALS OF REMOTE SENSING	CORE (PRACTICAL)	<ol style="list-style-type: none"> <li>1. Appreciate the strength and application of remote sensing</li> <li>2. Map the resources, their location and availability using GIS software.</li> <li>3. Apply this knowledge for sustainable development at local to global level.</li> </ol>
BSCHGEOSE301	GEOGRAPHIC INFORMATION SYSTEM	SKILL ENHANCEMENT (PRACTICAL)	<ol style="list-style-type: none"> <li>1. Understand various components and principles of GIS</li> <li>2. Construct the thematic maps using different digital layers</li> <li>3. Apply GIS in various geographical studies</li> </ol>
BSCHGEOSE302	SPATIAL STATISTICAL TECHNIQUES	SKILL ENHANCEMENT (PRACTICAL)	<ol style="list-style-type: none"> <li>1. Understand the basics of data collection and, processing for the meaningful outcomes</li> <li>2. Understand the selection of proper sampling techniques for the collection of data</li> <li>3. Put into practice the results obtained for spatial analysis of results and to apply various</li> </ol>

			statistical softwares for the study
BSCHGEOSE303	GEOGRAPHICAL TECHNIQUES	SKILL ENHANCEMENT (PRACTICAL)	<ol style="list-style-type: none"> <li>1. Gain knowledge about drawing of longitudinal sections and interpretation of structure of the geological maps.</li> <li>2. Predict Soil fertility (NPK, pH).</li> <li>3. Acquire practical knowledge about the application of various metrological instruments.</li> <li>4. Interpret and predict the climatic condition of an area.</li> </ol>
BSCHGEOGE301	CLIMATE CHANGE, VULNERABILITY & ADAPTATION	GENERIC ELECTIVE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Understand the foundational concepts of climate change and its impacts.</li> <li>2. Assess the human and environmental vulnerability to climate change.</li> <li>3. Learn the various adaptation and mitigation for reducing the impacts of climate change and national action plan.</li> </ol>
BSCHGEOGE302	RURAL DEVELOPMENT	GENERIC ELECTIVE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Appreciate the concepts, needs and various approaches to rural development;</li> <li>2. Understand the strong economic bases of rural areas of India;</li> <li>3. Appreciate the area based and target group-based approaches and provision of services to rural development.</li> </ol>
<b>UG SEMESTER IV (HONOURS)</b>			
BSCHGEOC401	INTRODUCTION TO GLOBAL ECONOMIC SYSTEM	CORE (THEORETICAL)	<ol style="list-style-type: none"> <li>1. Know different types of economic activities and their utilities.</li> <li>2. Understand the theories that are relevant to</li> </ol>

			contemporary world. 3. Examine the importance of economic initiatives that are crucial to development.
BSCHGEOC402	ENVIRONMENT & NATURAL RESOURCE MANAGEMENT	CORE (THEORETICAL)	1. Understand the relationship between man and environment. 2. Have good understanding on distribution, utilization and proper management of natural resources. 3. Know about the necessities that are pre-requisite for assessment and review of planning and policies.
BSCHGEOC403	DIGITAL REMOTE SENSING	CORE (PRACTICAL)	1. Develop the skill so as to use digital satellite data using software 2. Prepare the maps based with satellite data to compare with the ground realities. 3. Classify digital data for the land use/land cover and urban studies
BSCHGEOSE401	INTRODUCTION TO GI SCIENCE	SKILL ENHANCEMENT (PRACTICAL)	1. Have comprehensive understanding of GIS. 2. Have knowledge of using GPS & DGPS for the accurate location 3. Apply the GI Science platform for map making.
BSCHGEOSE402	THEMATIC ATLAS	SKILL ENHANCEMENT (PRACTICAL)	1. Have sound knowledge regarding the classification and elements of maps. 2. Have proper utilization of maps for explaining geographical issues. 3. Know the methods of preparation of various thematic maps.
BSCHGEOGE401	INDUSTRIAL DEVELOPMENT	GENERIC ELECTIVE (THEORETICAL)	1. Understand the factors responsible for location of an industry. 2. Differentiate various types of industries and gain knowledge about industrial regions and

			<p>policies of India.</p> <p>3. Understand the socio-economic and environmental implications of various types of industries.</p>
BSCHGEOGE402	SUSTAINABLE RESOURCE DEVELOPMENT	GENERIC ELECTIVE (THEORETICAL)	<p>1. Understand difficulties in defining the components of sustainable development in different contexts.</p> <p>2. Distinguish the patterns of regional development of the world and the need for sustainable development plan.</p> <p>3. Critically analyse the efforts and initiatives of the Governments in reducing the levels of poverty and inequality among the people of various countries.</p>
<b>UG SEMESTER V (HONOURS)</b>			
BSCHGEOC501	REGIONAL PLANNING & SUSTAINABLE DEVELOPMENT	CORE (THEORETICAL)	<p>1. Identify notable backward regions and solutions for their overall development</p> <p>2. Have comprehensive understanding regarding the different regions and application of different models and theories for integrated regional development.</p> <p>3. Select appropriate indicators for the measurement of socio-economic regional development.</p>
BSCHGEOC502	FIELD TECHNIQUES, SURVEYING AND RESEARCH METHODS	CORE (PRACTICAL)	<p>1. Conduct proper field work for the collection of primary data to bring out grassroots realities.</p> <p>2. Make use of proper tools and surveying methods for measurement in context of collection and processing of data.</p>

			3. Prepare a report based on field data.
BSCHGEODSE501	GEOGRAPHY OF WEST BENGAL	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand physical geography of West Bengal and availability of resources 2. Understand the demography, economy and regional issues of West Bengal 3. Assess the developmental problems of West Bengal in the context of future planning
BSCHGEODSE502	AGRICULTURE & FOOD SECURITY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Conceptualise the agriculture and its determinants. 2. Get the overview of Indian and World agriculture regions and systems. 3. Have sound knowledge of agriculture revolutions and food security
BSCHGEODSE503	POPULATION GEOGRAPHY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Learn the role of demography and population studies as a distinct field of human geography 2. Have sound knowledge of key concept, different components of population along with its drivers 3. Examine population dynamics and characteristic with contemporary issues
BSCHGEODSE504	HYDROLOGY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand the basic components of hydrological cycle and comprehend practices of integrated watershed management. 2. Evaluate the water balancing and river basin and water disputes. 3. Study the soil as a basic resource, focusing its distribution, problems and management.
<b>UG SEMESTER VI (HONOURS)</b>			
BSCHGEOC601	EVOLUTION OF	CORE	1. Understand paradigms in



	GEOGRAPHICAL THOUGHT	(THEORETICAL)	geography discipline through time 2. Understand the development of geographical thinking. 3. Understand the past and future trends of geography as a discipline.
BSCHGEOC602	DISASTER MANAGEMENT PROJECT WORK	CORE (PRACTICAL)	1. Understand processes and impact of disaster on empirical basis. 2. Distinguish both the natural and man-made disaster. 3. Design and prepare project work on disasters.
BSCHGEODSE601	GEOGRAPHY OF HEALTH	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand the key concepts related to health. 2. Identify the linkages between the health and environment. 3. Explain the relationships between health and environment with reference to climate change
BSCHGEODSE602	POLITICAL GEOGRAPHY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Learn the concept of nation and state and geopolitical theories 2. Understand the different dimensions of resource conflicts on geopolitical base. 3. Acquire sound knowledge on politics of contemporary displacement.
BSCHGEODSE603	BIOGEOGRAPHY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Familiarise the dynamics of climate and related theories. 2. Understand of Vegetation as an index of climate. 3. Assess of different aspects of floral and faunal provinces
BSCHGEODSE604	GEOGRAPHY OF SOCIAL WELL-BEING	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand the nature, scope and relationships of geography and human wellbeing. 2. Understand the spatial dimensions of social

			diversity components. 3. Critically analyse the social welfare programs related to inclusive and exclusive policies in India.
BSCHGEODSE605	URBANISATION AND URBAN SYSTEM	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand the fundamentals and patterns of urbanization process 2. Learn the functional classification of cities and Central Place Theory 3. Know contemporary problems of Delhi, Mumbai, Kolkata and Chennai
BSCHGEODSE606	SOIL GEOGRAPHY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand the concepts related to soil. 2. To know the soil diversities and importance of their preservation 3. To know about soil fertility and its significance

### BSC PROGRAM IN GEOGRAPHY

COURSE CODE	COURSE TITLE	COURSE TYPE	COURSE LEARNING OUTCOMES
<b>UG SEMESTER I (PROGRAM)</b>			
BSCPGEOC101	PHYSICAL GEOGRAPHY	CORE (THEORETICAL)	1. Understand the components of the earth system – atmosphere, lithosphere and hydrosphere 2. Appreciate and understand various features of the spheres with local, regional and global examples; 3. Associate and bring out the relationships of the features of one sphere with other spheres.
<b>UG SEMESTER II (PROGRAM)</b>			
BSCPGEOC201	HUMAN GEOGRAPHY	CORE (THEORETICAL)	1. Understand the basic concepts in various sub-fields of human geography; 2. Appreciate the growth, distribution and composition of population in different parts of the

			world; 3. Analyse the types and patterns of rural and urban settlements, urbanisation and related issues in India and other regions of the world.
<b>UG SEMESTER III (PROGRAM)</b>			
BSCPGEOC301	CARTOGRAPHIC TECHNIQUES	CORE (THEORETICAL)	1. Understand various types of maps and their elements. 2. Understand how projections are applied to prepare maps from the globe; 3. Learn prepare maps from geographic data and their interpretations.
BSCPGEOSE301	REGIONAL PLANNING & SUSTAINABLE DEVELOPMENT	SKILL ENHANCEMENT (THEORETICAL)	1. Understand the need of regional planning methodology. 2. Know the history of various planning strategies for balanced national development; 3. Capable of diagnosing the regional issues.
<b>UG SEMESTER IV (PROGRAM)</b>			
BSCPGEOC401	ENVIRONMENTAL GEOGRAPHY	CORE (THEORETICAL)	1. Appreciate the structure and functions of ecosystems with examples 2. Understand the environmental problems and relevant management strategies 3. Acquire knowledge about the new environmental policies and the need to revise policies to tackle the environmental issues of India, in particular
BSCPGEOSE401	FUNDAMENTALS OF REMOTE SENSING AND GPS	SKILL ENHANCEMENT (PRACTICAL)	1. Appreciate the development and uses of aerial and satellite remote sensing system and navigation satellite systems in India and other nations; 2. Understand the basics of EMR and energy interaction in atmosphere and on earth surface

			features; 3. Analyse and interpret the aerial and satellite data products and GNSS/GPS survey results.
<b>UG SEMESTER V (PROGRAM)</b>			
BSCPGEODSE501	SYSTEMATIC GEOGRAPHY OF INDIA	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Learn about physiography of India; 2. Understand the Indian demographic and settlement structure. 3. Study the economy and various types of resources in India.
BSCPGEODSE502	WORLD ECONOMIC GEOGRAPHY	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1. Understand the basic concepts and approaches of economic geography. 2. Examine the significance and relevance of economic theories and different economic activities. 3. Understanding the pre-requisites of different economic activities.
BSCPGEOSE501	FIELD TECHNIQUES & SURVEYING METHODS	SKILL ENHANCEMENT (PRACTICAL)	1. Conduct field work in physical and human geography, besides investigating socio-economic and environmental issues; 2. Develop tools to collect primary data from the field and interpret them meaningfully; 3. Prepare field report with suitable tables, maps and diagrams based on the data collected from the field and secondary sources.
<b>UG SEMESTER VI (PROGRAM)</b>			
BSCPGEODSE601	DISASTER RISK REDUCTION	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1.Acquire knowledge on concepts, types, distribution and mapping of disasters in India; 2. Understand the man-made disasters and human negligence in the context of environment;

			3. Bring awareness about the preparedness, mitigation and processes of disaster risk reduction.
BSCPGEODSE602	GEOGRAPHY OF TOURISM	DISCIPLINE SPECIFIC ELECTIVE (THEORETICAL)	1.Appreciate the basic concepts and geographical parameters of tourism; 2. Acquire knowledge on the recent trends and patterns of tourism development in India and other countries; 3. Understand the impacts of tourism on national, regional and local economy, environment and society.
BSCPGEOSE601	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM	SKILL ENHANCEMENT (PRACTICAL)	1. Appreciate the basic principles and components of GIS; 2. Apply raster and vector data structure for GIS analysis; 3. Analyse the basic resources, land use and urban related data using GIS software for meaningful interpretation.

### **PROGRAMME OUTCOME**

- Demonstrating the understanding of basic concepts in geography.
- Demonstrating the coherent and systematic knowledge in the discipline of geography to deal with current issues and their solution.
- Display an ability to read and understand maps and topographic sheets to look at the various aspects on the space.
- Cultivate ability to evaluate critically the wider chain of network of spatial aspects from global to local level on various time scales as well.
- Recognize the skill development in Geographical studies programme as part of career avenues in various fields like teaching, research and administration.

### **PROGRAMME SPECIFIC OUTCOME**

1. Understand the relevance of geographical knowledge to everyday life.
2. Getting the ability to communicate geographic information utilizing both lecture and

practical exercises.

3. Inculcate the ability to evaluate geographical problems effectively.
4. Exhibit the skill in using geographical research tools including spatial statistics, qualitative analysis, cartography, remote sensing, GIS, IRNSS and GIScience.