

### **COURSE OUTCOME OF GEOGRAPHY HONOURS (CBCS PATTERN)**

Programme	Semester	Course Name with Course Code	Course Outcome
B.A/ B.Sc in Geography Honours	1 <sup>st</sup>	GEOA - CC-1 Th+Prac Geotectonics and Geomorphology	<ul style="list-style-type: none"> <li>➤ Explains the gneiss of Earth's Interiors.</li> <li>➤ Helps us to understand the formation of landforms in different physical settings.</li> <li>➤ Helps us to understand and delineate the impacts of erosional processes and formation.</li> </ul>
		GEOA - CC – 2 Th+Prac Cartographic Techniques	<ul style="list-style-type: none"> <li>➤ Explains the basis of Map projections and its usefulness.</li> <li>➤ Gives the detail idea about about Scales and its relevance.</li> <li>➤ Different Cartographic Techniques with suitable data shows the spatial distribution of geographic attributes.</li> </ul>
B.A/ B.Sc Geography Honours	2 <sup>nd</sup>	GEOA-CC-3 Th+Prac Human Geography	<ul style="list-style-type: none"> <li>➤ Students will develop a solid understanding of the concept of 'space', 'place' and 'region' and their importance in explaining world affairs.</li> <li>➤ The students learn the difference between race and ethnicity and learn about the Space, Society and Cultural regions on the basis of language and religion.</li> <li>➤ They will understand general demographic principles and their patterns at regional and global scales.</li> <li>➤ The students will get an idea about the evolution of human societies from hunting to industrial society; how human beings survive adapting unfavourable physical environment; The conflict between development and environment is dealt with in this section. The types and patterns of rural settlements and the types of rural house in India; morphology and hierarchy of urban settlements are taught.</li> <li>➤ The use of cartographic technique i.e. how to represent spatial variation of demographic data; the process of measuring arithmetic growth rate of</li> </ul>

			population; types, graphical representation, and analysis of age-sex pyramids.; and the process of analyzing Nearest Neighbour Index is dealt with in this section.
		GEOA-CC-4 Th+Prac Cartograms, Thematic Mapping and Surveying	<ul style="list-style-type: none"> <li>➤ The students learn the concept of diagrammatic representation of data; how to prepare and interpret different types of map – weather maps, land use-land cover maps, socio-economic maps.</li> <li>➤ Gets an idea about some principal national agencies producing thematic maps in India.</li> <li>➤ Learns the mechanism and preparation of geological maps with different structure.</li> <li>➤ Aims to learn the basic concepts of surveying and the uses of different survey equipment; and to draw the landform using survey instruments on the ground. And to assist in gaining knowledge about survey instruments and apply this knowledge in ground surface.</li> </ul>
B.A/ B.Sc Geography Honours	3 <sup>rd</sup>	GEOA – CC- 05 Th+P Climatology	<ul style="list-style-type: none"> <li>➤ Empowering students to understand the dynamics of the Earth's atmosphere and global climate</li> <li>➤ It also explains approaches to climatic classification.</li> <li>➤ It assesses the role of man in global climate change.</li> <li>➤ In the laboratory module, measurements of weather elements using analogue instruments, weather map interpretation etc. helps the students in understanding the practical concepts of climatology.</li> </ul>
		GEOA – CC– 06 Th+P Hydrology and Oceanography	<ul style="list-style-type: none"> <li>➤ It acquaints the students with the concepts of Hydrology and Oceanography.</li> <li>➤ They can understand the variations of global hydrological cycle and emphasize the significance of groundwater quality and its circulation.</li> <li>➤ The concepts of marine geomorphological concepts are learnt along with some dynamic concepts like sea level change. Thus, global warming etc. which are also linked sea level</li> </ul>

			<p>change, are learnt by the students.</p> <ul style="list-style-type: none"> <li>➤ Oceanography reveals the behavior and characteristics of the global oceans.</li> <li>➤ In the laboratory module, the quantitative aspects are taught with a special emphasis on hydrology.</li> </ul>
		GEOA – CC- 7 Th + P Statistical Methods in Geography	<ul style="list-style-type: none"> <li>➤ Generates interest in fundamental concepts of statistical techniques in geography.</li> <li>➤ Instigates interest in understanding the importance of use of data in geography and different types of sampling.</li> <li>➤ Data interpretation techniques are discussed here by using sample and data matrix. It enables the students to use tabulation of data and gain knowledge about association and correlation.</li> <li>➤ The basic statistical concepts are dealt with so that students can be made capable to interpret data quantitatively while doing empirical studies in future.</li> <li>➤ The practical section is an extension of the theoretical course of statistical methods, e.g. regression and residual mapping.</li> </ul>
		GEOA –SEC- A- 3- 02-Th Tourism Management	<ul style="list-style-type: none"> <li>➤ In this Skill Enhancement Course (SEC), different types of tourism, factors, sustainable tourism, and the popular tourism destinations are studied. Case studies are also included in the curriculum for better comprehension of the empirical analyses of tourism industry.</li> </ul>
B.A/ B.Sc Geography Honours	4 <sup>th</sup>	GEOA – CC- 08 Th + P Economic Geography	<ul style="list-style-type: none"> <li>➤ Assess the importance of Economic Activities in overall development.</li> <li>➤ Different economic models help us to understand the relation between trade, capital and resources.</li> <li>➤ Mapping techniques showing the growth rate and GDP helps us to understand the economic efficiency of the country.</li> </ul>
		GEOA – CC – 09 Th+P Regional Planning and Development	<ul style="list-style-type: none"> <li>➤ Assess the importance of regions on the basis of its functions.</li> <li>➤ Help us to identify the problems regarding disparity and diversity.</li> <li>➤ Indicators and components of Human Development explains the measurement of inequality, regional disparity and</li> </ul>

			stages of development
		GEOA – CC- 10 Th+P Soil and Biogeography	<ul style="list-style-type: none"> <li>➤ Analyze the different aspects of pedology and its relationships with different geographical parameters.</li> <li>➤ Provides the Knowledge of sum total flora and fauna composition around the world living in different ecosystems.</li> <li>➤ Helps us to understand the importance of Biodiversity and Sustainability.</li> </ul>
		GEOA –SEC- B- 4- O4 Sustainable Development	<ul style="list-style-type: none"> <li>➤ Important for understanding the complex environmental processes for maintaining the sustainability.</li> <li>➤ Highlights the problems of global environment crisis and provides the most possible measures to intervene the crisis through sustainable development goals.</li> <li>➤ Try to bridge the gap between human and development in more friendly ways.</li> </ul>
B.A/ B.Sc Geography Honours	5 <sup>th</sup>	Research Methodology and Fieldwork GEO-A-CC-5-11-TH+P	<ul style="list-style-type: none"> <li>➤ Understand the meaning and significance of research work.</li> <li>➤ Learn the techniques and methods of writing scientific reports.</li> <li>➤ Know the Importance of field work in Geography.</li> <li>➤ Learn Field techniques and tools.</li> <li>➤ Learn how to prepare field report after selection of study area.</li> </ul>
		Remote Sensing, GIS and GNSS GEO-A-CC-5-12-TH+P	<ul style="list-style-type: none"> <li>➤ Learn everything about Remote Sensing satellites, FCC.</li> <li>➤ Know the principles of image interpretation, inventories of land use and landcover, features from satellite image</li> <li>➤ Learn the concept and use of GIS, data structure types.</li> <li>➤ Learn how to prepare geo-referenced map from satellite image and other raster images.</li> <li>➤ Learn how to use GPS.</li> </ul>
		Climate Change: Vulnerability and Adaptations GEO-A-DSE-A-5-02-TH GEO-A-DSE-A-5-02-P	<ul style="list-style-type: none"> <li>➤ Learn the concept, evidences and factors of climate change.</li> <li>➤ Know about global climatic assessment.</li> <li>➤ In-depth knowledge of Climate change impact, vulnerability assessment and</li> </ul>

			<p>adaptive strategies.</p> <ul style="list-style-type: none"> <li>➤ Know about the National action plan and awareness on climate change.</li> <li>➤ Learn how to analyze of weather trends.</li> </ul>
			➤
		<p>Cultural and Settlement Geography GEO-A-DSE-B-5-05-TH GEO-A-DSE-B-5-05-P</p>	<ul style="list-style-type: none"> <li>➤ Students gets familiar with the concept of cultural geography.</li> <li>➤ Learn about the cultural region of India and the World.</li> <li>➤ Learn all about rural settlement, morphology, Census of India.</li> <li>➤ Learn everything about urban settlement, theories of urban morphology, city region and conurbation,</li> <li>➤ Learn to identify of different types of settlement, mapping language distribution and prepare maps with cartograms.</li> </ul>
		<p>GEO-A-CC-6-13-TH+P Evolution of Geographical Thought</p>	<ul style="list-style-type: none"> <li>➤ Perceive the knowledge about development of Geography from ancient period to modern period.</li> <li>➤ Understand the contribution of the philosophers and geographers in Geography.</li> <li>➤ Understand different approaches in Geography and recent trend in geography</li> <li>➤ Build capacity to analyse change of mapping techniques.</li> <li>➤ Presentations on different schools of geographical thought.</li> </ul>
B.A/ B.Sc Geography Honours	6 <sup>th</sup>	<p>GEO-A-CC-6-14-TH+P Hazard Management</p>	<ul style="list-style-type: none"> <li>➤ Understand type, approaches, risk, vulnerability, preparedness, trauma and resilience of hazards and disasters.</li> <li>➤ Acquire knowledge about preparation of hazard zonation maps by geospatial techniques.</li> <li>➤ Assess the factors, vulnerability and consequences with respect to specific hazards.</li> <li>➤ Analyse the management procedure of specific hazards affecting West Bengal and India.</li> <li>➤ Prepare project report and assess hazards</li> </ul>

			from West Bengal, incorporating a preparedness plan.
		GEO-A-DSE-A-6-04-TH+P Resource Geography	<ul style="list-style-type: none"> <li>➤ Understand the concept and type of resources, the approaches to resource utilization, significance of resources, the problems of resource depletion.</li> <li>➤ Acquire knowledge about Sustainable Resource development, distribution, utilization, problems and management of mineral and energy resources and their crisis, resource sharing and politics of power resources.</li> <li>➤ Develop the skill of mapping and computing of extracted data of forest cover and water bodies from satellite images and/or maps</li> <li>➤ Learn to compute HDI.</li> </ul>
		GEO-A-DSE-B-6-08-TH+P Geography of India	<ul style="list-style-type: none"> <li>➤ Get knowledge about physiography, climate, soil and natural vegetation, population characteristics, specific tribal community of India and agricultural regions of India.</li> <li>➤ Assess the green revolution in India, regional distribution and uses of resource, automobile and IT industry of India, regionalisation on the basis of physiography and economy of India.</li> <li>➤ Understand the overall geography of West Bengal and investigate regional issues of Darjeeling and Sundarban.</li> <li>➤ Learn to compute crop combination, composite index and making comparison between spatial units.</li> <li>➤ Making a relationship among temperature, rainfall and physiography of India and computation of annual trend of minerals and manufacturing goods of India.</li> </ul>

## **COURSE OUTCOME OF GEOGRAPHY GENERAL (CBCS PATTERN)**

Programme	Semester	Course name with course code	Course Outcome
B.A./B.Sc. in Geography (General)	Sem I (Gen)	PHYSICAL GEOGRAPHY GEO-G-CC-1-01-TH+P	<ul style="list-style-type: none"> <li>Explaining the fundamental of Geotectonics &amp; Geomorphology.</li> <li>Develop an idea about different landform, processes and underlying structure.</li> <li>Students get knowledge about global hydrological cycle.</li> <li>Oceanography reveals the behavior, characteristics and distribution of global ocean circulation, salinity, temperature, marine resources.</li> <li>Develop an idea about topographical map and learn to interpret its physical and cultural aspects and they learn to identify different minerals and rocks by its different characteristics.</li> </ul>
B.A./B.Sc. in Geography (General)	Sem II (Gen)	ENVIRONMENT GEOGRAPHY GEO-G-CC-2-02-TH+P	<ul style="list-style-type: none"> <li>Climatology explains the dynamics of Earth's atmosphere, global climate and climate classification.</li> <li>Soil Geography provides detail knowledge about soil formation, properties, profile characteristics, soil classification and its management.</li> <li>In Biogeography they can get a clear concept about ecosystem, biomes, biodiversity and different plant types and their ecological adaptation.</li> <li>They learn to construct hythergraph, climograph, ternary diagram and learn to interpret daily weather map.</li> </ul>
B.A./B.Sc. in Geography (General)	Sem III (Gen)	HUMAN GEOGRAPHY GEO-G-CC-3-03-TH+P	<ul style="list-style-type: none"> <li>Enable students to assessing the importance of economic activities and discussing locational factors for development of Industries.</li> <li>Social geography help to know about social structure, function, system, characteristics, social issues and provides detail knowledge about the origin of Race, language, religion etc.</li> <li>Enable students to know about cultural region, realm, and</li> </ul>

			<p>landscape and grasp an idea about rural-urban settlement and its relation with landscape.</p> <ul style="list-style-type: none"> <li>Helps students in diagrammatic data presentation, time scale analysis and nearest neighbor analysis.</li> </ul>
B.A./B.Sc. in Geography (General)	Sem IV (Gen)	CARTOGRAPHY GEO-G-CC-4-04-TH+P	<ul style="list-style-type: none"> <li>Develop an idea about scale and learn to draw different types of scales and projections.</li> <li>They get an idea about different types of surveying instruments like dumpy level and prismatic compass.</li> <li>Enable students in diagrammatic data presentation like dots, circle, isopleths etc.</li> <li>Enrich students with the concept of Remote Sensing and provide them with the scope of an in depth understanding of the satellite remote sensing.</li> </ul>
B.A./B.Sc. in Geography (General)	Sem V (Gen)	REGIONAL DEVELOPMENT GEO-G-DSE-A-5-01-TH+P	<ul style="list-style-type: none"> <li>Know about the concept and different characteristics, types of regions.</li> <li>Regionalization, strategies and models of regional planning.</li> <li>Identify backward regions and their development.</li> <li>Disparities in agricultural, industrial and Human resource development.</li> <li>Learn how to delineate regions, sphere of influence, measurement of regional inequality.</li> </ul>
		FOREST AND WILDLIFE MANAGEMENT GEO-G-SEC-A-5-02-TH	<ul style="list-style-type: none"> <li>Learn the importance and strategies of forest and wildlife management.</li> <li>Knowledge about tribals of forest areas.</li> <li>Learn about community participation and joint forest management.</li> </ul>
B.A./B.Sc. in Geography (General)	Sem VI (Gen)	POPULATION GEOGRAPHY GEO-G-DSE-B-6-04-TH+P	<ul style="list-style-type: none"> <li>Understand the development of population geography, distribution of population,</li> </ul>



			<p>theory and model of population growth.</p> <ul style="list-style-type: none"> <li>• Analyse the characterises of population of World and India, population policies of developed and less developed countries.</li> <li>• Applying the method of population projection to forecast future population of any geographical area.</li> </ul>
		<p>SUSTAINABLE DEVELOPMENT GEO-G-SEC-B-6-04-TH</p>	<ul style="list-style-type: none"> <li>• Understand the concept, Historical background, components, limitations, challenges of Sustainable Development.</li> <li>• Investigate the contemporary global environmental issues.</li> <li>• Awareness about global goals for sustainable development</li> </ul>