

# Murshidabad Adarsha Mahavidyalaya

Ph: 03481-236327

E-mail: mam236327@gmail.com

www.murshidabadadarshamahavidyalaya.in



Islampur  
Murshidabad  
Pin- 742304 (W.B.)

Memo No: MAM / /

Date: \_\_\_/\_\_\_/\_\_\_

## **COURSE & PROGRAM OUTCOME OF GEOGRAPHY HONOURS (B.A.) UNDER CBCS**

Geography is the study of places and the relationships between people and their environments. Geographers explore both 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. The study of the diverse environments, places, and spaces of Earth's surface and their interactions. It seeks to answer the questions of why things are as they are where they are. The modern academic discipline of geography is rooted in ancient practice, concerned with the characteristics of places, in particular their natural environments and peoples, as well as the relations between the two.

### **Choice Based Credit System (CBCS): Syllabus in Geography**

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 Geography and Human Geography. The principal goal of the syllabus is to enable the students to secure a job at the end of the undergraduate programme. 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, Remote Sensing and GIS especially in the honours course. The syllabus emphasizes on development of basic skills of the subject.

*Indra Kumar Mistry*

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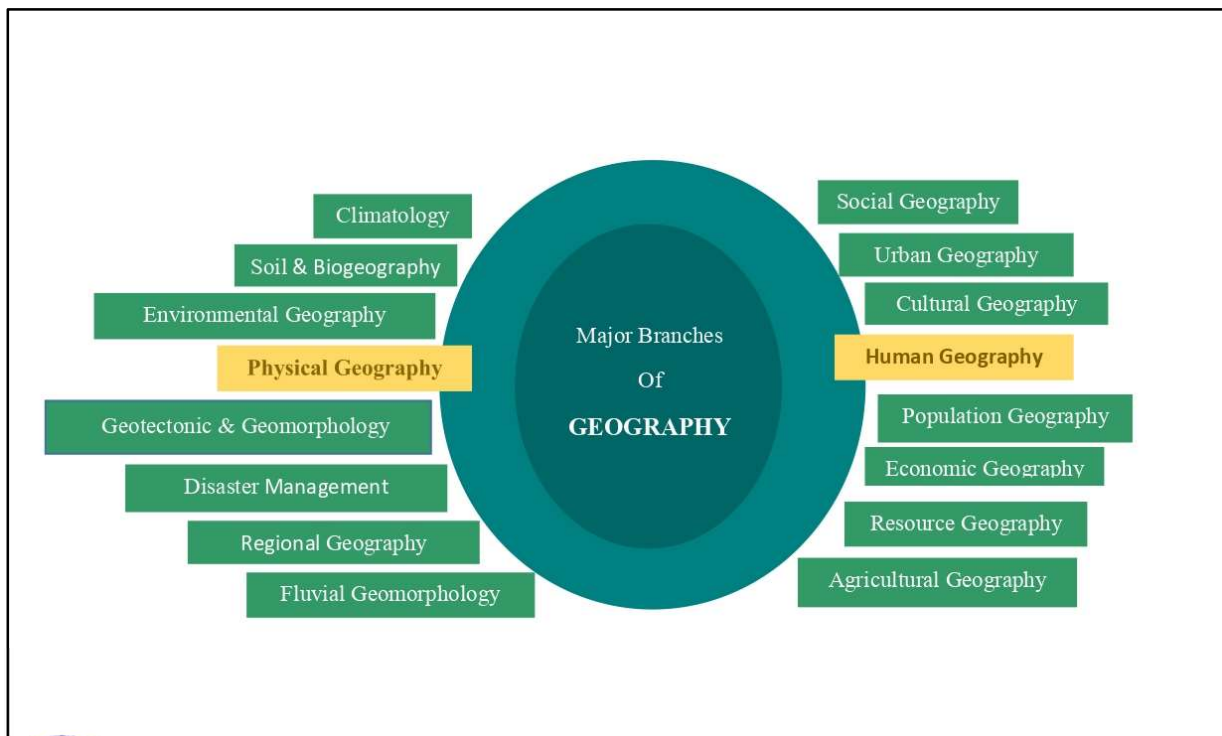
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## Learning Outcomes:

This syllabus is designed 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.



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## Course Outcomes

### ● Honours:

The course outcomes of the different papers offered are presented below. After completion of the course the student will be able to:

Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
SEM-I	Honours	GEO/H/CC/T/01	Core	Geotectonics and Geomorphology	6	<ul style="list-style-type: none"><li>• Understand the Fundamental Concepts of Geotectonic and Geomorphology.</li><li>• Understand Earth's Tectonic and Structural Evolution. Gain knowledge about Geological Time Scale.</li><li>• Gain knowledge about the Interior Structure of the Earth with special reference to seismology.</li><li>• Develop an idea about the concept of Isostasy .</li><li>• Develop an idea about the concept of Plate Tectonics .</li><li>• Acquire knowledge about types of Folds and Faults and Earthquakes, Volcanoes and associated landforms.</li><li>• Develop knowledge about the Degradational Processes like Weathering; Mass wasting and resultant landforms.</li><li>• Collect knowledge about the Models of landscape evolution on the views of Davis, Penck, King and Hack.</li><li>• Analyze the Development of river network and landforms on uniclinal and folded structures.</li><li>• Understand and identify the Erosional and Depositional Landforms formed by Fluvial, Karst, Aeolian, Glacial and Coastal processes.</li></ul>

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
		GEO/H/CC/T/02	Core	Cartographic Techniques And	4	<ul style="list-style-type: none"> <li>Understand and prepare different kinds of maps.</li> <li>Acquire knowledge about the Scale, Projection.</li> <li>Gain knowledge of Topographical Map and can construct Relief Profiles, Relief Map, Average Slope Map. Also able to show Relation between physical and cultural features from topographical maps through Transect chart.</li> <li>Develop the concept of Geological Map, Geological Structure.</li> <li>Identify different types of Rocks and Minerals.</li> </ul>
		GEO/H/CC/P/02		Geological Map Study	2	
SEM-II		GEO/H/CC/T/03	Core	Human Geography	6	<ul style="list-style-type: none"> <li>Gain knowledge about major themes of human Geography.</li> <li>Acquire knowledge on the history and evolution of humans.</li> <li>Understand the concept of Demography and Ekistics.</li> <li>Develop the concept of space, society and culture.</li> </ul>
		GEO/H/CC/T/04	Core	Cartograms, Survey And Thematic	4	<ul style="list-style-type: none"> <li>Comprehend the representation of data through Cartograms.</li> <li>Learn the usages of survey instruments like Abney Level, Clinometer, Prismatic Compass, Dumpy level and Transit Theodolite.</li> <li>Interact with different types of Survey Equipment like Prismatic Compass, Dumpy level and Transit Theodolite.</li> <li>Develop an idea about different types of Thematic Mapping Techniques.</li> </ul>
GEO/H/CC/P/04	Mapping	2				
SEM-III		GEO/H/CC/T/05	Core	Climatology	6	<ul style="list-style-type: none"> <li>Understand the elements of</li> </ul>

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
						<p>weather and climate,different atmospheric phenomena and climate change.</p> <ul style="list-style-type: none"> <li>Learn to associate climate with other environmental and human issues.</li> <li>Understand the mechanism and role of Monsoon Circulation in India.</li> <li>Develop knowledge about climatic classification.</li> <li>Analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.</li> <li>Understand the importance of the atmospheric pressure and winds.</li> <li>Develop a clear knowledge about Cyclones.</li> </ul>
		GEO/H/CC/T/06	Core	Statistical Methods In Geography	4	<ul style="list-style-type: none"> <li>Recognize the significance and application of Statistical Methods in Geography..</li> <li>Know about different types of sampling and its application in research.</li> <li>Learn to do collection and tabulation of data.</li> <li>Gain knowledge about correlation and can apply it in future research works.</li> </ul>
		GEO/H/CC/P/06			2	
		GEO/H/CC/T/07	Core	Geography Of India	6	<ul style="list-style-type: none"> <li>Develop a clear image of physical, cultural and economic features of India and West Bengal.</li> <li>Understand future prospects of various industries of India and West Bengal.</li> <li>Make plan for Regional Development of India and West Bengal</li> </ul>

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
		GEO/H/SEC/P/0 1/A  or  GEO/H/SEC/P/0 1/B	SEC	Computer Basic And Computer  Applications  Or  Remote Sensing	2	<ul style="list-style-type: none"><li>In geography, a variety of statistical data need to be handled. Particularly in economic and social geography, the geographical information is represented in terms of various statistical techniques. These statistical data need to be processed. The manual data processing takes much more time, and is a tiresome exercise. But with the help of a computer, the job can be done much faster. Students will learn these applications.</li><li>Remote Sensing and Geographic Information System are considered as essential tools in geography. To do such exercises, the use of computers is a must.</li><li>Interpret satellite imagery and understand the preparation of false color composites from them.</li></ul>
		GEO/H/CC/T/08	Core	Regional Planning And  Development	6	<ul style="list-style-type: none"><li>Gain knowledge about definition and delineation of region.</li><li>Understand the needs of multi level planning in India.</li><li>Grow a concept of metropolitan and urban agglomerations, regionalization of India for planning (Agro-Ecological Zones).</li><li>Build an idea about types and techniques of regional planning.</li><li>Understand the concept of development and underdevelopment.</li><li>Build an idea about Theories and models for regional development.</li><li>Assess the indicators of regional imbalances in India and</li></ul>

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
						<p>Significance of balanced development in India.</p> <ul style="list-style-type: none"> <li>Analyse the Significance, Indicators and Measurement of Human development.</li> </ul>
		GEO/H/CC/T/09	Core	Economic Geography	6	<ul style="list-style-type: none"> <li>Recognise the concept and approaches to Economic Geography.</li> <li>Understand the concept and factors influencing location of economic activity.</li> <li>Build a knowledge about determining factors of transport costs.</li> <li>Gain knowledge about classification of Economic activities.</li> <li>Analyze the Location theories with special reference to agriculture (Vonthunen), and industry (Weber).</li> <li>Develop an idea of special economic zones and technology parks.</li> </ul>
		GEO/H/CC/T/10	Core	Environmental Geography	4	<ul style="list-style-type: none"> <li>Understand the Scope of Environmental Geography.</li> <li>Gain knowledge about Concept of holistic environment and the concept of EIA.</li> <li>The impact of humans on environmental resources and much more.</li> <li>Build a knowledge about Environmental programmes and policies.</li> <li>Assess the quality of soil pH and NPK and be able to help in agriculture.</li> <li>Interpret the Air Quality of Index.</li> </ul>
		GEO/H/CC/P/10			2	

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		GEO/H/SEC/P/0 2/A	SEC	Advance Spatial Statistical Techniques	2	<ul style="list-style-type: none"> <li>Understand the significance and application of Statistics in Geography.</li> <li>Interpret statistical data for a holistic understanding of geographical phenomena.</li> <li>Gain knowledge about different types of sampling.</li> <li>Learn to use statistical software.</li> </ul>
		or		Or		<ul style="list-style-type: none"> <li>Learn to prepare Questionnaire.</li> <li>Learn to convert raw data to quantitative data.</li> <li>Know the structure of a research paper.</li> </ul>
		GEO/H/SEC/P/0 2/B		Field Work		
SEM-V		GEO/H/CC/T/11	Core	Research Methodology	4	<ul style="list-style-type: none"> <li>Gain knowledge about Research Methodology, objectives and hypothesis and literature review.</li> <li>Understand the structure of a research report and be efficient on it.</li> <li>Develop knowledge about Fieldwork in Geographical studies .</li> <li>Grow concept on Field techniques and tools.</li> <li>Develop skills in photography, mapping and video recording.</li> <li>Be efficient in Designing a field report.</li> </ul>
		GEO/H/CC/P/11		And Field Work	2	
		GEO/H/CC/T/12	Core	Remote Sensing And GIS	4	<ul style="list-style-type: none"> <li>Have knowledge about the principles and stages of remote sensing, platform, sensor resolutions and image referencing schemes.</li> <li>Interpret satellite imagery and understand the preparation of false color composites from</li> </ul>
		GEO/H/CC/P/12			2	



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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
						<p>them.</p> <ul style="list-style-type: none"> <li>Learn the uses of QGIS, a Geographic Information System (GIS) software for contemporary mapping skills with Georeferencing, Digitisation.</li> <li>Prepare FCC using IRS LISS-III and/or LANDSAT (ETM+) data and LULC map by Supervised Image Classification (Maximum Likelihood) using IRS LISS-III or LANDSAT (ETM+) data.</li> </ul>
		GEO/H/DSE/T/0 1/A or GEO/H/DSE/T/0 1/B	DSE	Urban Geography  Or	6	<ul style="list-style-type: none"> <li>Gain knowledge about the nature, scope, approaches and recent trends in Urban Geography.</li> <li>Analyze the Theories of Urban Morphology: Concentric Zone Theory, Sector Theory and Multiple Nuclei Theory.</li> <li>Understand the various aspects of Rank-size rule and Law of primate city.</li> <li>Understand the Concept of Hierarchy; Christaller's Central Place Theory.</li> <li>Understand the patterns of urbanization in developed and developing countries</li> <li>Develop ideas about Patterns and trends of urbanization in India.</li> <li>Develop concept of Case studies of Delhi, Kolkata with reference to Land use and Urban issues (housing, slum).</li> <li>Build concept of Ecological process of urban growth and Urban renewal programme - JNNURM.</li> <li>Understand the scope, content and development of cultural geography.</li> <li>Understand the concept of cultural hearth and realm, cultural diffusion, Cultural</li> </ul>

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
				Cultural And Settlement Geography		<p>segregation and cultural diversity.</p> <ul style="list-style-type: none"><li>• Learn about the major racial groups of the world.</li><li>• Understand the scope and content of Settlement Geography.</li><li>• Acquire knowledge about Rural settlements-Definition, nature and characteristics</li><li>• Develop knowledge about Rural and Urban Morphology.</li></ul>
		GEO/H/DSE/T/0 2/A  or  GEO/H/DSE/T/0 2/B	DSE	Population Geography	6	<ul style="list-style-type: none"><li>• Understand the Relation between population geography and demography.</li><li>• Develop ideas about Sources of population data with special reference to India (Census, Vital statistics and NSS) and help to apply in future for research work.</li><li>• Build concept of Demographic Transition Model; Theories of population growth: Malthusian and Marxian theory.</li><li>• Gain knowledge about Population distribution, density and growth profile in India and World.</li><li>• Develop Concept of optimum population.</li><li>• Understand the concept of Population Composition and Determinate measures of Fertility and Mortality.</li><li>• Grow Concept of Human Development Index.</li><li>• Know Migration Theories, Causes and Types and population-resource regions.</li><li>• Acquire knowledge about Population policies in Selected Countries: India and China and</li></ul>



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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
						Behavioural Approaches in Geography. <ul style="list-style-type: none"> <li>Grow concept of Transition from Cosmography to Scientific Geography and Dualism and Dichotomies.</li> </ul>
		GEO/H/CC/T/14	Core	Disaster Management	4	<ul style="list-style-type: none"> <li>Understand the nature and classification of hazards and disasters.</li> <li>Assess risk, perception and vulnerability with respect to hazards.</li> <li>Prepare hazard zonation maps.</li> <li>Develop Concept of Responses to hazards and disasters: Preparedness, trauma and aftermath; Resilience and capacity building.</li> <li>Build knowledge of Factors, vulnerability, consequences and management of Earthquake, Landslide, Cyclone and Fire.</li> </ul>
		GEO/H/CC/P/14			2	
		GEO/H/DSE/T/0 3/A or GEO/H/DSE/T/0 3/B	DSE	Fluvial Geomorphology  Or  Resource Geography	6	<ul style="list-style-type: none"> <li>Understand scope and significance of Fluvial Geomorphology.</li> <li>Develop knowledge about Run-Off, Channel Pattern, Drainage Basin, Fluvial Landforms, River Bank Erosion and Integrated watershed management.</li> <li>Understand the concept and classification and Conservation of Natural Resources.</li> <li>Understand the Approaches to Resource Utilization.</li> <li>Appreciate the significance of resources.</li> <li>Analyze the problems of resource depletion with special reference to forests, water and fossil fuels.</li> <li>Understand the concept of Sustainable Resource development.</li> </ul>

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
						<ul style="list-style-type: none"> <li>Understand the distribution, utilization, problems and management of metallic and non-metallic mineral resources</li> <li>Analyse the contemporary energy crisis and assess the future scenario</li> <li>Understand the concept of Limits to Growth, sustainable use of resources.</li> <li>Understand the Problems and Management of Energy Resources: Conventional and non-conventional</li> </ul>
		GEO/H/DSE/T/0 4/A  or GEO/H/DSE/T/0 4/B	DSE	Soil And Biogeography	6	<ul style="list-style-type: none"> <li>Have knowledge about the character and profile of different soil types.</li> <li>Understand the Factors of soil formation, impact of man as an active agent of soil transformation, erosion and degradation.</li> <li>Recognize land capability and classify it.</li> <li>Understand the Concepts of ecology, biosphere, ecosystem, biome, ecotone, community and Concept of trophic structure, food chain and food web; Energy flow in ecosystems.</li> <li>Grow concept of Geographical extent and characteristic features of Tropical rain forest, Taiga and Grassland biomes.</li> <li>Recognize the significance of biogeochemical cycles and biodiversity.</li> <li>Comprehend the devastating impact of deforestation.</li> <li>Identify soil types and derive their pH.</li> <li>Develop knowledge about Definition and significance of soil properties.</li> <li>Understand the Principles of soil classification: Genetic and USDA.</li> </ul>



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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
				Agricultural Geography		<ul style="list-style-type: none"><li>• Agricultural Geography is concerned with the spatial variations, distribution and location of agricultural activities on the earth's surface and the factors responsible for them.</li><li>• Know the Progress of Agricultural Geography with reference to allied disciplines; Approaches to study of Agricultural Geography.</li><li>• Develop knowledge about Origin and dispersal of agriculture; Role of agriculture in human society.</li><li>• Understand the Concept of cropping pattern, crop combination, gross and net cropped area, crop rotation</li><li>• Analyze the Role of irrigation in agriculture with special reference to India.</li><li>• Understand the Problems of agriculture with special reference to South Asian Countries</li><li>• Understand World patterns of agricultural production and food security.</li><li>• Grow concept of Globalization and Agriculture with special reference to India.</li></ul>



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• **Program:**

The course outcomes of the different papers offered are presented below. After completion of the course the student will be able to:

Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
SEM-I	Program	GEO/G/CC/T/01	Core	Geotectonics And Geomorphology  And  Scale And Cartography	4	<ul style="list-style-type: none"><li>Gain knowledge about the Interior Structure of the Earth with special reference to seismology.</li><li>Develop knowledge about the Degradational Processes like Weathering; Mass wasting and resultant landforms.</li><li>Develop an idea about the concept of Plate Tectonics .</li><li>Collect knowledge about the Models of landscape evolution on the views of Davis, Penck, King and Hack.</li><li>Understand and identify the Erosional and Depositional Landforms formed by Fluvial, Karst, Aeolian, Glacial and Coastal processes.</li><li>Acquire knowledge about the Scale.</li><li>Develop an idea about different types of Thematic Mapping Techniques.</li><li>Acquire knowledge about the Climograph and Hythergraph.</li></ul>
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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
SEM-II		GEO/G/CC/T/02	Core	Climatology, Soil and Biogeography and Surveying and Levelling	4	<ul style="list-style-type: none"> <li>Understand the elements of weather and climate, different atmospheric phenomena and climate change.</li> <li>Learn to associate climate with other environmental and human issues.</li> <li>Understand the mechanism and role of Monsoon Circulation in India.</li> <li>Develop knowledge about climatic classification.</li> <li>Analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.</li> <li>Understand the importance of the atmospheric pressure and winds.</li> <li>Develop a clear knowledge about Cyclones.</li> <li>Have knowledge about the character and profile of different soil types.</li> <li>Understand the Factors of soil formation, impact of man as an active agent of soil transformation, erosion and degradation.</li> <li>Understand the Concepts of ecology, biosphere, ecosystem, biome, ecotone, community and Concept of trophic structure, food chain and food web; Energy flow in ecosystems.</li> <li>Learn the usages of survey instruments like Prismatic Compass, Dumpy level and Transit Theodolite.</li> <li>Interact with different types of Survey Equipment like Prismatic Compass, Dumpy level and Transit Theodolite.</li> </ul>
		GEO/G/CC/P/02			2	
SEM-III		GEO/G/CC/T/03	Core	Human Geography And Map Projection and Map Interpretation	4	<ul style="list-style-type: none"> <li>Gain knowledge about major themes of human Geography.</li> <li>Acquire knowledge on the history and evolution of humans.</li> <li>Understand the concept of Demography and Ekistics.</li> <li>Develop the concept of space, society and culture.</li> </ul>



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*Indra Kumar Mishra*

Principal  
Murshidabad Adarsha Mahavidyalaya  
P.O.-Islampur, Dist.-Murshidabad  
West Bengal



# Murshidabad Adarsha Mahavidyalaya

Ph: 03481-236327

E-mail: mam236327@gmail.com

www.murshidabadadarshamahavidyalaya.in



Islampur

Murshidabad

Pin- 742304 (W.B.)

Memo No: MAM / /

Date: \_\_\_/\_\_\_/\_\_\_

Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
		GEO/G/CC/P/03			2	<ul style="list-style-type: none"> <li>Acquire knowledge about the Projection.</li> <li>Gain knowledge of Topographical Maps. Also able to show Relation between physical and cultural features from topographical maps through Transect charts.</li> </ul>
		GEO/G/SEC/P/0 1/A OR GEO/G/SEC/P/0 1/B	SEC	Computer Basic And Computer Applications  Or  Remote Sensing	2	<ul style="list-style-type: none"> <li>In geography, a variety of statistical data need to be handled. Particularly in economic and social geography, the geographical information is represented in terms of various statistical techniques. These statistical data need to be processed. The manual data processing takes much more time, and is a tiresome exercise. But with the help of a computer, the job can be done much faster. Students will learn these applications.</li> <li>Remote Sensing and Geographic Information System are considered as essential tools in geography. To do such exercises, the use of computers is a must.</li> <li>Interpret satellite imagery and understand the preparation of false color composites from them.</li> </ul>
SEM-IV		GEO/G/CC/T/04	Core	Environmental Geography and Field Work	4	<ul style="list-style-type: none"> <li>Understand the Scope of Environmental Geography.</li> <li>The impact of humans on environmental resources and much more.</li> </ul>
		GEO/G/CC/T/04			2	



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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
						<ul style="list-style-type: none"><li>Build a knowledge about Environmental programmes and policies.</li><li>Learn to prepare Questionnaires for Air Pollution and Health Perception Survey.</li><li>Learn to prepare Maps of Wetlands and Forest from Topographical Sheet.</li></ul>
		GEO/H/SEC/P/0 2/A	SEC	Advance Spatial Statistical Techniques	2	<ul style="list-style-type: none"><li>Understand the significance and application of Statistics in Geography.</li><li>Interpret statistical data for a holistic understanding of geographical phenomena.</li><li>Gain knowledge about different types of sampling.</li><li>Learn to use statistical software.</li></ul>
		OR		Or		<ul style="list-style-type: none"><li>Learn to prepare Questionnaires.</li><li>Learn to convert raw data to quantitative data.</li><li>Know the structure of a research paper.</li></ul>
		GEO/H/SEC/P/0 2/B		Field Work		
SEM-V		GEO/G/DSE/01/ A	DSE	Geography of India	6	<ul style="list-style-type: none"><li>Develop a clear image of physical, cultural and economic features of India.</li><li>Understand future prospects of various industries of India.</li></ul>
		OR		Or		<ul style="list-style-type: none"><li>Recognise the concept and approaches to Economic Geography.</li><li>Understand the concept and factors influencing location of economic activity.</li><li>Build a knowledge about determining factors of transport</li></ul>
		GEO/G/DSE/01/ B		Economic Geography		

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						<ul style="list-style-type: none"> <li>costs.</li> <li>Gain knowledge about classification of Economic activities.</li> <li>Analyze the Location theories with special reference to agriculture (Von Thunen), and industry (Weber).</li> <li>Understand the evolution of Primary, Secondary and Tertiary activities.</li> </ul>
		GEO/G/SEC/P/0 3/A	SEC	Field Techniques and Survey Based Project	2	<ul style="list-style-type: none"> <li>Learn to prepare Questionnaires.</li> <li>Learn to convert raw data to quantitative data.</li> <li>Know the structure of a research paper.</li> </ul>
		OR		Or		<ul style="list-style-type: none"> <li>Learn the usages of survey instruments like Thermometer, Barometer, Hydrometer, Rain gauge, Windvane.</li> <li>Learn to draw Isotherm, Isohyet.</li> </ul>
		GEO/G/SEC/P/0 3/B		Collection, Mapping and Interpretation of Climatic Data		
SEM-VI		GEO/G/DSE/T/0 2/A	DSE	Disaster Management	6	<ul style="list-style-type: none"> <li>Understand the nature and classification of hazards and disasters.</li> <li>Assess risk, perception and vulnerability with respect to hazards.</li> <li>Prepare hazard zonation maps.</li> <li>Prepare hazard management plans to hazards and disasters.</li> <li>Preparedness, trauma and aftermath; Resilience and capacity building.</li> <li>Build knowledge of Factors, vulnerability, consequences and management of Earthquake, Landslide, Cyclone and Fire.</li> <li>Physical geography provides the</li> </ul>
		OR				

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Semester	Honours/ Program	Course Code	Course Nature	Course Title	Credits	Course Outcomes
		GEO/G/DSE/T/0 2/B		Or  Geography of Tourism		essential background, against which tourism places are created and environmental impacts and concerns are major issues that must be considered in managing the development of tourism places.
		GEO/G/SEC/P/0 4/A	SEC	Collection, Mapping and Interpretation of Pedological Data	2	<ul style="list-style-type: none"><li>Assess the quality of soil pH and NPK and be able to help in agriculture .</li></ul>
		OR		Or		
		GEO/G/SECP//0 4/B		Rocks and Minerals and their Megascopic Identification		<ul style="list-style-type: none"><li>Identify Rocks and Minerals Megascopically.</li></ul>



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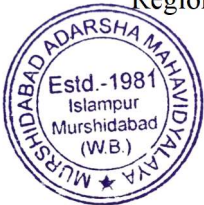
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## Program Outcomes

- Understand the scope and evolution of the diverse discipline of Geography.
- Recognize, synthesize and evaluate diverse sources of knowledge and approaches of Geography to explore human-environment problems. Explain societal relevance of geographical knowledge and apply it to the real world in various human, environmental issues.
- Appreciate and reflect critically on the importance of holistic and interpretative human-environment perspectives.
- An understanding and acknowledgment of the threats that endangered 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.
- Development of knowledge, skills and holistic understanding of the discipline among students. Encouragement of scientific mode of thinking and scientific method of enquiry in students. This goal is achieved through the regular field excursions conducted by the Department to various parts of India extensively and the writing of a report/thesis on it.
- 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 and disasters, their impact and management.
- Ability to undertake research in interdisciplinary studies and problems or issues beyond the realm of what strictly comes under the purview of geography. This is possible because of the varied nature of the curriculum that encompasses the study and analyses of concepts of sub-disciplines and allied disciplines of Geology, Seismology, Pedology, Hydrology, Meteorology, Environmental Studies, Disaster Management, Resource Management and Conservation, Regional Planning and Development Studies etc.



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## ● Program Specific Outcomes:

- **PSO 1** - Students will gain the knowledge of physical geography. They will gather knowledge about the fundamental concepts of Geography and will have a general understanding about the geomorphologic and geotectonic process and formation. Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change.
- **PSO 2** – Associating landforms with structure and process; establishing man-environment relationships; and exploring the place and role of Geography vis-a-vis other social and earth sciences. Students can easily correlate the knowledge of physical geography with human geography. They will analyze the problems of physical as well as cultural environments of both rural and urban areas. Moreover they will try to find out the possible measures to solve those problems.
- **PSO 3** – Understanding the functions of global economy, geopolitics, global geostrategic views and functions of political systems.
- **PSO 4** – Developing a sustainable approach towards the ecosystem and the biosphere with a view to conserve natural systems and maintain ecological balance.
- **PSO 5** – The physical environment, human societies and local and/or global economic systems are integrated to the principles of sustainable development.
- **PSO 6** – Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography. Explaining and analysing the regional diversity of India through interpretation of natural and planning regions.
- **PSO 7** – Analyzing the differential patterns of the human habitation of the Earth, through studies of human settlements and population dynamics. Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization.
- **PSO 8** – Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviouralism, idealism etc.
- **PSO 9** – Students will gain sensitization and awareness about the hazards and disasters to which the subcontinent is vulnerable; and their management.
- **PSO 10** – Training in practical techniques of mapping, cartography, software, interpretation of maps, Aerial photographs and Satellite images etc; help students to understand the spatial

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variation of phenomena on the Earth's surface. They will learn how to prepare maps by using modern geographical map making techniques and GIS.



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