

## Course Outcomes & Programme Outcomes

**Mahishadal Raj College**

**Department of Geography**

### **B.Sc. (Honours) Semester-I**

Course Code & Title	Course Segment with Sub-title	Course Outcomes
<b>CORE COURSE [For Mother Discipline]</b>		
<b>GEOH: CC-1: CIT: Geotectonics and Geomorphology</b>	<b>Unit-I: Geotectonics</b>	<p><b>CO<sub>1</sub>:</b> Understand the theories and fundamental concepts of Geotectonic.</p> <p><b>CO<sub>2</sub>:</b> Understand earth's tectonic and structural evolution. Gain knowledge about earth's interior. Develop an idea about concept of plate tectonics, and resultant landforms.</p> <p><b>CO<sub>3</sub>:</b> Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms.</p> <p><b>CO<sub>4</sub>:</b> Understanding crustal mobility and tectonics; with special emphasis on their role in landform development.</p>
	<b>Unit-II: Geomorphology</b>	<p><b>CO<sub>1</sub>:</b> Develop an idea about geomorphology and different types of fundamental concepts.</p> <p><b>CO<sub>2</sub>:</b> Explain different types of geomorphic processes like weathering and mass wasting and cycle of erosion.</p> <p><b>CO<sub>3</sub>:</b> Overview and critical appraisal of landform development models.</p> <p><b>CO<sub>4</sub>:</b> Understand the processes of erosion, deposition and resulting landforms.</p> <p><b>CO<sub>5</sub>:</b> Acquire knowledge about slope forms and processes.</p> <p><b>CO<sub>6</sub>:</b> Develop the skills of identification of features and correlation between them.</p> <p><b>CO<sub>7</sub>:</b> Identification of rocks and minerals.</p>
<b>GEOH: CC-2: C2T &amp; C2P: Cartographic Techniques</b>	<b>C2T: Cartographic Techniques</b>	<p><b>CO<sub>1</sub>:</b> Understand and prepare different kinds of scales.</p> <p><b>CO<sub>2</sub>:</b> Understanding the types of maps and appreciate the elements of maps.</p> <p><b>CO<sub>3</sub>:</b> Recognize methodological, structural and functional themes/ aspects of map and map making.</p> <p><b>CO<sub>4</sub>:</b> Development of observation skills.</p> <p><b>CO<sub>5</sub>:</b> Explaining projections and its application to prepare maps from the globe.</p> <p><b>CO<sub>6</sub>:</b> Analyzing geographical data and use it to prepare maps.</p> <p><b>CO<sub>7</sub>:</b> Comprehension of locational and spatial aspects of earth surface for regional development and decision-making.</p> <p><b>CO<sub>8</sub>:</b> Gain knowledge about topographical maps and apply this knowledge in ground surface.</p>
	<b>C2P: Cartographic Techniques Lab</b>	
<b>GENERIC ELECTIVE (GE) COURSE [Interdisciplinary for other department]</b>		

<b>GE-1: Disaster Management</b>	<b>GE1T: Disaster Management</b>	<p><b>CO1:</b> Assessing the processes, impact and management of natural and man – made hazards.</p> <p><b>CO2:</b> Understanding the fundamental concepts of hazard, disaster and extreme events.</p> <p><b>CO3:</b> Assessing risk, perception and vulnerability with respect to hazards.</p> <p><b>CO4:</b> Investigation and assessment of causes, impact, causality and mechanism of various types of hazards/ disasters.</p> <p><b>CO5:</b> Understanding the roles of various characters in disaster management from different ends of efforts.</p> <p><b>CO6:</b> Understanding the essential tools and techniques for response, mitigation, preparedness to disaster in terms of its management.</p> <p><b>CO7:</b> Knowledge gaining to prepare hazard zonation maps.</p> <p><b>CO8:</b> Helping to build an appreciation for the challenges and complexities involved in Disaster Management.</p>
<b>B.Sc. (General) Semester-I</b>		
<b>CORE COURSE</b>		
<b>GEOG: DSC-1A (CC-1) : DSC1AT: Physical Geography</b>	<b>DSC1AT: Physical Geography</b>	<p><b>CO1:</b> Understand different view and approaches regarding physical geography.</p> <p><b>CO2:</b> Develop history of geomorphic ideas of different schools.</p> <p><b>CO3:</b> Gain knowledge about earth’s interior and understanding about the plate tectonics and the resultant outcome of plate dynamics.</p> <p><b>CO3:</b> Develop an idea about concept of internal structure of the earth and related conditions.</p> <p><b>CO4:</b> Acquire knowledge about different process of denudation.</p> <p><b>CO5:</b> Understand the processes of erosion, deposition and resulting landforms.</p> <p><b>CO6:</b> Understand concept of normal cycle of erosion and its interruption. <b>CO7:</b> Develop an idea about the fundamentals of atmosphere and climatic classification.</p> <p><b>CO8:</b> Acquire knowledge about hydrology.</p>

## Course Outcomes & Programme Outcomes

### B.Sc. (Honours) Semester-II

Course Code & Title	Course Segment with Sub-title	Course Outcome
<b>CORE COURSE [For Mother Discipline]</b>		
<b>GEOH: CC-3: C3T: Human Geography</b>	<b>Unit-I: Nature and Principles</b>	<p><b>CO1:</b> Understanding the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations and gaining knowledge about major themes of Human Geography.</p> <p><b>CO2:</b> Develop an idea about space and society.</p> <p><b>CO3:</b> Understanding the concept and dynamics of human society and acquiring the knowledge on the history and evolution of humans.</p>
	<b>Unit-II: Society, Demography and Ekistics</b>	<p><b>CO4:</b> Identifying the different global population dynamics and building up an idea about population growth and distribution of population.</p> <p><b>CO5:</b> Explaining the correlation between man and environment and the resultant cultural landscape.</p> <p><b>CO6:</b> Knowing about population –resource relationship.</p> <p><b>CO7:</b> Examining the human societies and how they develop, their culture, economy and politics, all within the context of their environment.</p>
<b>GEOH: CC-4 : C4T &amp; C4P: Cartograms and Thematic Mapping</b>	<b>C4 T : Cartograms and Thematic Mapping</b>	<p><b>CO1:</b> Developing the idea about different types of thematic mapping techniques for its preparation.</p> <p><b>CO2:</b> Interpreting, reading, analyzing and identifying features from Topographical maps.</p> <p><b>CO3:</b> Interpreting, reading, analyzing and identifying features from various types of Thematic maps.</p>
	<b>C4 P: Cartography (Lab)</b>	<p><b>CO4:</b> Construction and representation of geographical data through Cartograms.</p> <p><b>CO5:</b> Comprehend the concept of scales and representation of data through cartograms.</p> <p><b>CO6:</b> Learn the uses of various survey instruments.</p> <p><b>CO7:</b> Brings direct interaction of different types of surveying instruments like Dumpy level, Prismatic Compass, etc. with environment.</p> <p><b>CO8:</b> Knowledge about different techniques for preparation, presentation and interpretation of various geographical data in term of diagram, graph and map making.</p>
<b>GENERIC ELECTIVE (GE) COURSE [Interdisciplinary for other department]</b>		

<p style="text-align: center;"><b>GE-2 : GE2T: Geospatial Technology</b></p>	<p style="text-align: center;"><b>Geospatial Technology</b></p>	<p><b>CO1:</b> Understanding the concept, components, scope and historical development of geospatial technology.</p> <p><b>CO2:</b> Understanding the concepts of spheroid, ellipsoid and projection systems.</p> <p><b>CO3:</b> Knowing the data types and structures in spatial technology.</p> <p><b>CO4:</b> Gaining the principle based knowledge of land-based surveying with reference to auto level and total station</p> <p><b>CO5:</b> Developing an idea about classification of Remote Sensing platforms, sensors and resolution and satellite systems.</p> <p><b>CO6:</b> Understanding the principles and techniques about georeferencing, image enhancement, image classification and preparation of thematic maps.</p> <p><b>CO7:</b> Developing the idea about sources, preparation and manipulation of GIS data, spatial modelling and overlay analysis.</p> <p><b>CO7:</b> Understanding the principles of satellite positioning and navigation and collection of way points and exporting to GIS.</p> <p><b>CO8:</b> Knowledge gaining for preparing DEMs.</p> <p><b>CO9:</b> Understanding the integration of different components of spatial technology.</p>
<p><b>B.Sc. (General) Semester-II</b></p>		
<p><b>CORE COURSE</b></p>		
<p style="text-align: center;"><b>GEOG: DSC-1B (CC-2): Human Geography</b></p>	<p style="text-align: center;"><b>DSC1BT: Human Geography</b></p>	<p><b>CO1:</b> Understanding the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations and gaining knowledge about major themes of Human Geography.</p> <p><b>CO2:</b> Understanding the concept and evolution of human society.</p> <p><b>CO3:</b> Identifying the different global population dynamics with reference to population growth and distribution of population.</p> <p><b>CO4:</b> Examining the human societies and how they develop, their culture, economy and politics, all within the context of their environment.</p> <p><b>CO5:</b> Knowing about population –resource relationship.</p> <p><b>CO6:</b> Making the idea about the types, pattern and development of rural and urban settlement.</p>

## Course Outcomes & Programme Outcomes

### B.Sc. (Honours) Semester-III

Course Code & Title	Course Segment with Sub-title	Course Outcomes
<b>CORE COURSE [For Mother Discipline]</b>		
<b>GEOH: CC-5: C5T: Climatology</b>	<b>Unit I: Elements of the Atmosphere</b>	<p><b>CO<sub>1</sub>:</b> Acquiring clear cut concepts of climatology and meteorology.</p> <p><b>CO<sub>2</sub>:</b> Greater understanding of the nature and scope of climatology; ocean atmospheric interaction; climate change and its impacts</p> <p><b>CO<sub>3</sub>:</b> Understanding the composition, processes, functions and importance of the atmosphere.</p> <p><b>CO<sub>4</sub>:</b> Understanding the mechanism and consequences of various atmospheric and climatic events over time.</p> <p><b>CO<sub>5</sub>:</b> Understanding the elements of weather and climate, different atmospheric phenomena and climate change.</p> <p><b>CO<sub>6</sub>:</b> Learning to associate climate with other environmental and human issues.</p> <p><b>CO<sub>7</sub>:</b> Analyzing the dynamics of the Earth's atmosphere and global climate.</p> <p><b>CO<sub>8</sub>:</b> Assessing the role of man in global climate change.</p> <p><b>CO<sub>9</sub>:</b> Learning to use of various meteorological instruments, tools and techniques and prepare various climatic maps and charts and interpret them.</p> <p><b>CO<sub>10</sub>:</b> Study various methods of data collection, check weather conditions and learn the theoretical basis of meteorological instruments</p> <p><b>CO<sub>11</sub>:</b> Acquiring techniques of hydro-meteorology and agro-meteorology.</p> <p><b>CO<sub>12</sub>:</b> Responding to global warming at individual as well as societal levels; responding to issues of climate change and its impacts</p> <p><b>CO<sub>13</sub>:</b> Helping for weather interpretation and forecasting with focus on application of climatology and meteorology for future research work.</p>
	<b>Unit II: Atmospheric Phenomena and Climatic Classification</b>	
<b>GEOH: CC-6: C6T &amp; C6P: Statistical Methods in Geography</b>	<b>C6T: Statistical Methods in Geography</b>	<p><b>CO<sub>1</sub>:</b> Learning the significance of statistics in geography.</p> <p><b>CO<sub>2</sub>:</b> Understanding the importance of use of data in geography</p> <p><b>CO<sub>3</sub>:</b> Recognizing the importance and application of Statistics in Geography</p> <p><b>CO<sub>4</sub>:</b> Interpreting statistical data for a holistic understanding of geographical phenomena.</p> <p><b>CO<sub>5</sub>:</b> Understanding data collection and its processing for meaningful outcomes and comprehension, representation and interpretation of data outcomes.</p> <p><b>CO<sub>6</sub>:</b> Knowing about different types of sampling, its techniques and application in various geographical study or researches.</p> <p><b>CO<sub>7</sub>:</b> Developing an idea about theoretical distribution.</p> <p><b>CO<sub>8</sub>:</b> Learning to use tabulation of data.</p> <p><b>CO<sub>9</sub>:</b> Gaining the knowledge about association and correlation.</p> <p><b>CO<sub>10</sub>:</b> Escalating the statistical analytical skills through the learning and practices of both basic and advance statistics.</p> <p><b>CO<sub>11</sub>:</b> Augmenting the analytical skills of any beginner in Geography that includes both physical and social aspects of academic discipline.</p> <p><b>CO<sub>12</sub>:</b> Upon completion of this course, the students get the benefit of having strong mathematical and statistical analytical skills.</p>
	<b>C6P: Statistical Methods in Geography</b>	

<b>GEOH: CC-7 : C7T: Geography of India</b>	<b>Unit I: Geography of India</b>	<p><b>CO<sub>1</sub>:</b> Understanding the physical and socio – cultural set up and profile of our country, India.</p> <p><b>CO<sub>2</sub>:</b> Making the base knowledge about nature, types and distribution of Indian soil, vegetation and climate.</p> <p><b>CO<sub>3</sub>:</b> Understanding the fate-fortune scenario of Indian population and related policy over time.</p> <p><b>CO<sub>4</sub>:</b> Appraisal of distribution, utilization and resource endowment of the country.</p> <p><b>CO<sub>5</sub>:</b> Developing the concepts of regionalization in India from physiographic, economic and socio-cultural points of view.</p> <p><b>CO<sub>6</sub>:</b> Making the analytical knowledge base about Green Revolution in India and growing importance of Automobile Industry and Information Technology throughout the nation.</p> <p><b>CO<sub>7</sub>:</b> Understanding the major physical, demographic, socio-economic and problematic features and dimensions of West Bengal from regional view point and as the homeland of us.</p>
	<b>Unit II: Geography of West Bengal</b>	
<b>SKILL ENHANCEMENT COURSE (SEC) [For Mother Discipline]</b>		
<b>GEOH: SEC-1: SEC1T: Coastal Management</b>	<b>SEC-1T: Coastal Management (Option-1)</b>	<p><b>CO<sub>1</sub>:</b> Understanding the various components and coastal morphodynamic variables.</p> <p><b>CO<sub>2</sub>:</b> Understanding the systematic interactions among terrestrial atmospheric and marine processes along the coast as a systematic whole.</p> <p><b>CO<sub>3</sub>:</b> Learning the dynamic and functional interrelationship between forms and processes in a coastal region and their dynamic equilibrium.</p> <p><b>CO<sub>4</sub>:</b> Drawing the knowledge about long term and short-term development of landforms by several processes in some of the coastal regions in India and form process relationships in different spatial and temporal scales.</p> <p><b>CO<sub>5</sub>:</b> Understanding the problems of coastal erosion and other hazards in the context of global climatic change.</p> <p><b>CO<sub>6</sub>:</b> Identifying the different environmental impacts and management of anthropogenic interventions.</p> <p><b>CO<sub>7</sub>:</b> Analyzing the policies of coastal zone management, focusing on EEZ and CRZ.</p> <p><b>CO<sub>8</sub>:</b> Assessing coastal hazards and its management.</p>
<b>GEOH: SEC-1: SEC1T: Computer Basics and Computer Applications</b>	<b>SEC1T: Computer Basics and Computer Applications (Option-2)</b>	<p><b>CO<sub>1</sub>:</b> Drawing a comprehensive knowledge of fundamentals of computer application.</p> <p><b>CO<sub>2</sub>:</b> Understanding the representation and computation of data using statistical techniques, bivariate analysis and its representation.</p> <p><b>CO<sub>3</sub>:</b> Making the comprehension of representation and interpretation of the results.</p> <p><b>CO<sub>4</sub>:</b> Having the skills from theory to exercise using Microsoft excel and SPSS regarding the basic statistical computation.</p> <p><b>CO<sub>5</sub>:</b> Laying the foundation for software-based computing skills.</p> <p><b>CO<sub>6</sub>:</b> Upon completion, the students get adequate level of digital skills to do statistical analysis and small scale study or research.</p>
<b>GENERIC ELECTIVE (GE) COURSE [Interdisciplinary for other department]</b>		

<b>GE-3: GE3T: Geography of Tourism (Option-1)</b>	<b>Geography of Tourism</b>	<p><b>CO<sub>1</sub>:</b> Knowing the concepts, nature and scope, inter-relationships of tourism, recreation and leisure.</p> <p><b>CO<sub>2</sub>:</b> Learning the factors influencing tourism and conceptualizing different types of tourism like ecotourism, cultural tourism, adventure tourism, medical tourism, pilgrimage, international, national, etc.</p> <p><b>CO<sub>3</sub>:</b> Understanding about different types of tourism and recent trends of tourism in India.</p> <p><b>CO<sub>4</sub>:</b> Developing an idea about tourism development, problems and potentiality in India.</p> <p><b>CO<sub>5</sub>:</b> Knowing about National Tourism Policy for promotion of tourism in India. Using the information on factors (Historical, natural, socio-cultural and economic; motivating factors for pilgrimages) to plan destination marketing; tourism products; niche tourism planning; tourism impact assessment, sustainable tourism, Information Technology and Tourism, Tour operations planning and guiding.</p> <p><b>CO<sub>6</sub>:</b> Understanding increasing global tourism on national platform, etc.</p>
<b>GE-3 : GE3T: Rural Development (Option-2)</b>	<b>Rural Development</b>	<p><b>CO<sub>1</sub>:</b> Understanding the concept, basic elements, and measures of level of rural development.</p> <p><b>CO<sub>2</sub>:</b> Knowing the paradigms of rural development: Gandhian approach to rural development Lewis model of economic development, 'big push' theory of development, Myrdal's model of 'spread and backwash effects'.</p> <p><b>CO<sub>3</sub>:</b> Understanding the Area based approach to rural development like Drought prone area programmes, PMGSY, SJSY, MNREGA, Jan Dhan Yojana.</p> <p><b>CO<sub>4</sub>:</b> Developing the idea of Rural Governance including Panchayati Raj System and rural development policies and Programmes in India.</p> <p><b>CO<sub>5</sub>:</b> Developing an idea about target group approach to rural development. <b>CO<sub>6</sub>:</b> Gaining the knowledge about Rural Infrastructural Programmes and Development Programmes for Women and children in India.</p> <p><b>CO<sub>7</sub>:</b> Knowing the Rural Development Policies and Programmes in India throughout the time.</p>

### B.Sc. (General) Semester-III

#### CORE COURSE

<b>GEOG: DSC-1C (CC-3): DSC1CT: Maps and Diagrams</b>	<b>DSC1CT: Maps and Diagrams</b>	<p><b>CO<sub>1</sub>:</b> Developing the theoretical and practical idea, techniques and applications of different types of scale like linear, diagonal and vernier.</p> <p><b>CO<sub>2</sub>:</b> Acquiring knowledge about principles, techniques and applications of different types of map projection.</p> <p><b>CO<sub>3</sub>:</b> Gaining knowledge about topographical maps and apply this knowledge in ground surface.</p> <p><b>CO<sub>4</sub>:</b> Lessons on cartograms like pie graph, bar graph, age-sex pyramid, etc.</p> <p><b>CO<sub>5</sub>:</b> Brings direct interaction of different types of surveying instruments like Prismatic Compass and Dumpy level with environment.</p> <p><b>CO<sub>6</sub>:</b> Learning to draw many cartography diagram and apply this is in different statistical data.</p> <p><b>CO<sub>7</sub>:</b> Understanding the appropriate technique for graphical presentation of a data to their field work.</p> <p><b>CO<sub>8</sub>:</b> Drawing the knowledge about primary and secondary data collection helps them to prepare their survey report.</p> <p><b>CO<sub>9</sub>:</b> Fieldwork provides an opportunity for students to develop their sensitivity to and appreciation of a wide range of different environments.</p>
<b>DSC1DP: Cartographic Techniques (Lab)</b>		

SKILL ENHANCEMENT COURSE (SEC)		
<b>GEOG: SEC-1: SEC1T: Remote Sensing</b>	<b>SEC1T: Remote Sensing</b>	<p><b>CO1:</b> Knowing about concept and principles of remote sensing, sensor, resolutions and image referencing schemes.</p> <p><b>CO2:</b> Understanding the satellite remote sensing and knowing the techniques for the preparation of maps using satellite data.</p> <p><b>CO3:</b> Understanding the image processing and developing the idea about satellite image interpretation.</p> <p><b>CO4:</b> Enhancement of skill to use digital satellite data using software.</p> <p><b>CO5:</b> Interpretation of maps and compare with ground realities.</p>
<b>GEOG: SEC-1: SEC1T: Geographic</b>	<b>SEC1T: Geographic Information System</b>	<p><b>CO1:</b> Knowing about concept and components of Geographical Information System.</p> <p><b>CO2:</b> Understanding the Global Positioning System.</p> <p><b>CO3:</b> Understanding the GIS Data Structures.</p> <p><b>CO4:</b> Developing an idea about GIS Data Analysis.</p> <p><b>CO5:</b> Knowing about application of GIS.</p> <p><b>CO6:</b> Interpreting satellite imagery and understanding the preparation of false color composites from them.</p> <p><b>CO7:</b> Training in the use Geographic Information System (GIS) software for contemporary mapping skills.</p> <p><b>CO8:</b> Analyzing and interpreting remotely sensed satellite images and aerial photographs in order to understand topographical and cultural variations on the Earth's surface.</p> <p><b>CO9:</b> Conducting field excursions and preparation of field report on research on problem in different areas of India</p> <p><b>CO10:</b> Applying GIS to the preparation of thematic maps.</p> <p><b>CO11:</b> Using GNSS.</p>



## Course Outcomes & Programme Outcomes

### B.Sc. (Honours) Semester-IV

Course Code & Title	Course Segment with Sub-title	Course Outcomes
<b>CORE COURSE [For Mother Discipline]</b>		
<b>GEOH: CC-8: C8T:</b> Regional Planning and Development	<b>Unit I: Regional Planning</b>	<p><b>CO1:</b> Knowledge about identification, interpretation of types of regions as an integral part of geographical study.</p> <p><b>CO2:</b> Knowledge about identification of backward regions and possible solutions for its development.</p> <p><b>CO3:</b> Knowing about delineation of formal regions by weighted index method and also delineation of functional regions by breaking point analysis.</p> <p><b>CO4:</b> Gaining knowledge about measuring inequality by Location Quotient, and also measuring regional disparity by Sopher's Index</p> <p><b>CO5:</b> Gaining knowledge about evolution and types of regional planning.</p> <p><b>CO6:</b> Developing an idea about choice of a region for planning.</p> <p><b>CO7:</b> Building up an idea about theories and models for regional planning.</p> <p><b>CO8:</b> Comprehension and understanding of different models and theories for integrated regional development.</p>
	<b>Unit I: Regional Development</b>	<p><b>CO9:</b> Analysing indicators for the measurement of socio – economic regional development.</p> <p><b>CO10:</b> Knowing about measuring development indicators.</p> <p><b>CO11:</b> Appreciating the varied aspects of development and regional disparity, in order to formulate measures of balanced development.</p> <p><b>CO12:</b> Analyzing the concept of regions and regionalization.</p> <p><b>CO13:</b> Studying typical physiographic, planning, arid and biotic regions of India. Understanding the detailed geography of India.</p>
<b>GEOH: CC-9 : C9T:</b> Economic Geography	<b>Unit I: Concepts</b>	<p><b>CO1:</b> Understanding the fundamental principles of Economic Geography.</p> <p><b>CO2:</b> Examining the significance and relevance of theories in relation to the location of different economic activities.</p> <p><b>CO3:</b> Understanding the concept of economic activity, factors affecting location of economic activity.</p> <p><b>CO4:</b> Gaining knowledge about different types and utilities of primary activities, secondary activities and tertiary activities.</p>
	<b>Unit II: Economic Activities</b>	<p><b>CO5:</b> Assessing the significance of Economic Geography, the concept of economic man and theories of choice.</p> <p><b>CO6:</b> Analyzing the factors of location of agriculture and industries.</p> <p><b>CO7:</b> Analyzing map and interpret data on production, economic indices, transport network and flows.</p> <p><b>CO8:</b> Understanding the establishment and roles of International agreements and trade blocs like GATT and OPEC.</p>

<b>GEOH: CC-10 : C10T &amp; C10P: Environmental Geography</b>	<b>C10T: Environmental Geography</b>	<p><b>CO<sub>1</sub>:</b> Gaining knowledge about concept, scope of environmental geography and components of environment.</p> <p><b>CO<sub>2</sub>:</b> Understanding the dynamics of man–environment relationship.</p> <p><b>CO<sub>3</sub>:</b> Building up an idea about structural and functional dimensions of ecosystem.</p> <p><b>CO<sub>4</sub>:</b> Examining the distribution, utilization and management of natural resources base.</p> <p><b>CO<sub>5</sub>:</b> Assessment of planning, policies and programmes related to environment resources.</p> <p><b>CO<sub>6</sub>:</b> Preparation and interpretation of various inventories on environment problems.</p>
	<b>C10P: Environment Geography Lab</b>	<p><b>CO<sub>1</sub>:</b> Gaining the knowledge to prepare the questionnaire for perception survey on any environmental problems.</p> <p><b>CO<sub>2</sub>:</b> Understanding the techniques for preparation of check-list for Environmental Impact Assessment of an urban /industrial project.</p> <p><b>CO<sub>3</sub>:</b> Knowing the quality assessment of soil using field kit.</p> <p><b>CO<sub>4</sub>:</b> Gaining interpretation knowledge of air quality using CPCB / WBPCB data.</p>
<b>SKILL ENHANCEMENT COURSE (SEC) [For Mother Discipline]</b>		
<b>GEOH: SEC-2: SEC2T: Research Methods</b>	<b>SEC-2T: Research Methods (Option-1)</b>	<p><b>CO<sub>1</sub>:</b> Understanding the concepts, characteristics, types, ethics and needs of research.</p> <p><b>CO<sub>2</sub>:</b> Assessing the types and approaches to research in geography.</p> <p><b>CO<sub>3</sub>:</b> Understanding different tools and techniques in geographical research.</p> <p><b>CO<sub>4</sub>:</b> Conducting proper field work for the collection of primary data to bring out grass - root realities.</p> <p><b>CO<sub>5</sub>:</b> Preparing the suitable field report based on field data.</p> <p><b>CO<sub>6</sub>:</b> Learning the significance of field work in geographical studies.</p> <p><b>CO<sub>7</sub>:</b> Understanding the meaning of field and identifying the case study.</p> <p><b>CO<sub>8</sub>:</b> Knowing about different types of field techniques.</p> <p><b>CO<sub>9</sub>:</b> Developing an idea about research problems.</p> <p><b>CO<sub>10</sub>:</b> Having expertise in identification of area of study, methodology, quantitative and quantitative analysis, and conclusions to be drawn about the area – fundamental to geographical research.</p> <p><b>CO<sub>11</sub>:</b> Handling logistics and other emergencies on field/ research.</p> <p><b>CO<sub>12</sub>:</b> Developing skills in photography, mapping and video recording.</p>
<b>GEOH: SEC-2: SEC2T: Advanced Spatial Statistical Techniques</b>	<b>SEC2T: Advanced Spatial Statistical Techniques (Option-2)</b>	<p><b>CO<sub>1</sub>:</b> Understanding the Probability theory, probability density functions with respect to Normal, Binomial and Poisson distributions and their geographical applications.</p> <p><b>CO<sub>2</sub>:</b> Making sampling plans for spatial and non-spatial data and sampling estimates for large and small samples tests involving means and proportions.</p> <p><b>CO<sub>3</sub>:</b> Understanding and applications of Correlation and Regression Analysis in Geography and Spatial Science.</p> <p><b>CO<sub>4</sub>:</b> Understanding and applications of Time Series Analysis in Geographical Study or Researches.</p> <p><b>CO<sub>5</sub>:</b> Upon completion of this course, the students get the benefit of having strong mathematical and statistical analytical skills.</p>
<b>GENERIC ELECTIVE (GE) COURSE [Interdisciplinary for other department]</b>		

**SKILL ENHANCEMENT COURSE (SEC)**

<p align="center"><b>GEOG: SEC-2: SEC2T: Regional Planning and Development</b></p>	<p align="center"><b>SEC2T: Regional Planning and Development (Option-1)</b></p>	<p><b>CO1:</b> Knowledge about identification, interpretation of types of regions as an integral part of geographical study.</p> <p><b>CO2:</b> Knowledge about identification of backward regions and possible solutions for its development.</p> <p><b>CO3:</b> Knowing about delineation of formal regions by weighted index method and also delineation of functional regions by breaking point analysis.</p> <p><b>CO4:</b> Gaining knowledge about measuring inequality by Location Quotient, and also measuring regional disparity by Sopher's Index</p> <p><b>CO5:</b> Gaining knowledge about evolution and types of regional planning.</p> <p><b>CO6:</b> Developing an idea about choice of a region for planning.</p> <p><b>CO7:</b> Building up an idea about theories and models for regional planning.</p> <p><b>CO8:</b> Comprehension and understanding of different models and theories for integrated regional development.</p> <p><b>CO9:</b> Analysing indicators for the measurement of socio – economic regional development.</p> <p><b>CO10:</b> Knowing about measuring development indicators.</p> <p><b>CO11:</b> Appreciating the varied aspects of development and regional disparity, in order to formulate measures of balanced development.</p>
<p align="center"><b>GEOG: SEC-2: SEC2T: Geographic Information System</b></p>	<p align="center"><b>SEC2T: Computer Basics (Option-2)</b></p>	<p><b>CO1:</b> Drawing a comprehensive knowledge of fundamentals of computer application.</p> <p><b>CO2:</b> Understanding the representation and computation of data using statistical techniques, bivariate analysis and its representation.</p> <p><b>CO3:</b> Making the comprehension of representation and interpretation of the results.</p> <p><b>CO4:</b> Having the skills from theory to exercise using Microsoft excel and SPSS regarding the basic statistical computation.</p> <p><b>CO5:</b> Laying the foundation for software-based computing skills.</p> <p><b>CO6:</b> Upon completion, the students get adequate level of digital skills to do statistical analysis and small scale study or research.</p>

# Course Outcomes & Programme Outcomes

## B.Sc. (Honours) Semester-V

Course Code & Title	Course Segment with Sub-title	Course Outcomes
<b>CORE COURSE [For Mother Discipline]</b>		
<b>GEOH: CC-11: C11T &amp; C11P: Field Work and Research Methodology</b>	<b>C11T: Field Work and Research Methodology</b>	<p><b>Unit I: Research Methodology</b></p> <p><b>Unit II: Fieldwork</b></p> <p><b>CO<sub>1</sub>:</b> Understanding the concepts, characteristics, types and needs of research.  <b>CO<sub>2</sub>:</b> Assessing the types and approaches to research in geography.  <b>CO<sub>3</sub>:</b> Understanding different tools and techniques in geographical research. <b>CO<sub>4</sub>:</b> Conducting proper field work for the collection of primary data to bring out grass - root realities.  <b>CO<sub>5</sub>:</b> Preparing the suitable field report based on field data.  <b>CO<sub>6</sub>:</b> Learning the significance of field work in geographical studies. <b>CO<sub>7</sub>:</b> Understanding the meaning of field and identifying the case study. <b>CO<sub>8</sub>:</b> Knowing about different types of field techniques.  <b>CO<sub>9</sub>:</b> Developing an idea about research problems.  <b>CO<sub>10</sub>:</b> Having expertise in identification of area of study, methodology, quantitative and quantitative analysis, and conclusions to be drawn about the area – fundamental to geographical research.  <b>CO<sub>11</sub>:</b> Handling logistics and other emergencies on field/ research. <b>CO<sub>12</sub>:</b> Developing skills in photography, mapping and video recording. <b>CO<sub>13</sub>:</b> Developing skills in Landscape Survey and Research.  <b>CO<sub>14</sub>:</b> Developing knowledge about quality enhancement of any research in geography.  <b>CO<sub>15</sub>:</b> Building up an idea about the ethics for research as well as field work.</p>
	<b>C11P: Research Methodology and Field Work Lab</b>	
<b>GEOH: CC-12 : C12T &amp; C12P: Remote Sensing and GIS</b>	<b>C12T: Remote Sensing and GIS</b>	<p><b>Unit I: Remote Sensing</b></p> <p><b>Unit II: Geographical Information Systems and Global Navigation Satellite System</b></p> <p><b>CO<sub>1</sub>:</b> Knowing about concept and principles of remote sensing, sensor, resolutions and image referencing schemes.  <b>CO<sub>2</sub>:</b> Understanding the satellite remote sensing and knowing the techniques for the preparation of maps using satellite data.  <b>CO<sub>3</sub>:</b> Understanding the image processing and developing the idea about satellite image interpretation.  <b>CO<sub>4</sub>:</b> Enhancement of skill to use digital satellite data using software.  <b>CO<sub>5</sub>:</b> Interpretation of maps and compare with ground realities.  <b>CO<sub>6</sub>:</b> Knowing about concept and components of Geographical Information System.  <b>CO<sub>7</sub>:</b> Understanding the Global Positioning System.  <b>CO<sub>8</sub>:</b> Understanding the GIS Data Structures.  <b>CO<sub>9</sub>:</b> Developing an idea about GIS Data Analysis.  <b>CO<sub>10</sub>:</b> Knowing about application of GIS.  <b>CO<sub>11</sub>:</b> Interpreting satellite imagery and understanding the preparation of false color composites from them.  <b>CO<sub>12</sub>:</b> Training in the use Geographic Information System (GIS) software for contemporary mapping skills.  <b>CO<sub>13</sub>:</b> Analyzing and interpreting remotely sensed satellite images and aerial photographs in order to understand topographical and cultural variations on the Earth's surface.  <b>CO<sub>14</sub>:</b> Conducting field excursions and preparation of field report on research on problem in different areas of India  <b>CO<sub>15</sub>:</b> Applying GIS to the preparation of thematic maps.  <b>CO<sub>16</sub>:</b> Knowing the techniques to use GNSS.</p>

	<b>C12 P: Remote Sensing and GIS Lab</b>	<p><b>CO<sub>1</sub>:</b> Giving the fundamental and some advanced knowledge of space based remote sensing and GIS.</p> <p><b>CO<sub>2</sub>:</b> Drawing an in-depth understanding of remote sensing and GIS.</p> <p><b>CO<sub>4</sub>:</b> Developing the ideas of GIS and image-based information.</p> <p><b>CO<sub>5</sub>:</b> Preparation of maps using satellite data.</p> <p><b>CO<sub>6</sub>:</b> Interpretation of maps and compare with ground realities.</p> <p><b>CO<sub>7</sub>:</b> Upon completion of this course, students get benefit from these baseline concepts to further increase their knowledge.</p>
<b>DISCIPLINE SPECIFIC ELECTIVES COURSE (DSE) [For Mother Discipline]</b>		
<b>GEOH: DSE-1: DSE1T: Hydrology and Oceanography (Option-1)</b>	<b>Unit-1: Hydrology</b>	<p><b>CO<sub>1</sub>:</b> Understanding the basic concepts of Hydrology and Oceanography.</p> <p><b>CO<sub>2</sub>:</b> Evaluate the variations of global hydrological cycle.</p> <p><b>CO<sub>3</sub>:</b> Assessment of significance of ground water quality and its circulation.</p> <p><b>CO<sub>4</sub>:</b> Studying the behavior and characteristics of the global oceans.</p> <p><b>CO<sub>5</sub>:</b> Understanding the characteristics of global ocean circulation.</p>
	<b>Unit-2: Oceanography</b>	<p><b>CO<sub>6</sub>:</b> Emphasizing the significance of groundwater quality and its circulation</p> <p><b>CO<sub>7</sub>:</b> Understanding role of the global hydrological cycle.</p> <p><b>CO<sub>8</sub>:</b> Realizing the importance of water conservation.</p> <p><b>CO<sub>9</sub>:</b> Identifying marine resources and characteristics of ocean waters.</p> <p><b>CO<sub>10</sub>:</b> Interpreting hydrological and rainfall dispersion graphs and diagrams.</p>
<b>GEOH: DSE-1: DSE1T: Geography of Health and Wellbeing (Option-2)</b>	<b>DSE1T: Geography of Health and Wellbeing</b>	<p><b>CO<sub>1</sub>:</b> Understanding the concept, scope and trends of Geography of Health in relation to allied disciplines</p> <p><b>CO<sub>2</sub>:</b> Estimating the linkages of health with environment and development</p> <p><b>CO<sub>3</sub>:</b> Understanding the geographical perspective of health in developed and developing countries</p> <p><b>CO<sub>4</sub>:</b> Analysing the factors and measurable parameters influencing health and wellbeing</p> <p><b>CO<sub>5</sub>:</b> Developing idea of health in relation to population dynamics and urbanization.</p> <p><b>CO<sub>6</sub>:</b> Understanding the health exposure and risks.</p> <p><b>CO<sub>7</sub>:</b> Estimating Health and disease pattern in Environmental Context with special reference to India</p> <p><b>CO<sub>8</sub>:</b> Assessing climate change and its relationship with health and disease pattern.</p> <p><b>CO<sub>9</sub>:</b> Assessing WHO programmes of health and wellbeing.</p>
<b>GEOH: DSE-1: DSE1T: Cultural and Settlement Geography (Option-3)</b>	<b>Unit I: Cultural Geography</b>	<p><b>CO<sub>1</sub>:</b> Understanding the fundamental concepts of cultural geography.</p> <p><b>CO<sub>2</sub>:</b> Assessing the characteristics of global cultural phenomena.</p> <p><b>CO<sub>3</sub>:</b> Assessing the spatio-temporal variations in distribution of rural settlement.</p> <p><b>CO<sub>4</sub>:</b> Understanding the different theories influencing urban morphology.</p> <p>Understand the scope and content of cultural geography</p> <p><b>CO<sub>5</sub>:</b> Tracing out the development of cultural geography in relation to allied disciplines</p> <p><b>CO<sub>6</sub>:</b> Understanding the concept of cultural hearth and realm, cultural diffusion, diffusion of religion</p> <p><b>CO<sub>7</sub>:</b> Developing an understanding of cultural segregation and cultural diversity, technology and development</p> <p><b>CO<sub>8</sub>:</b> Learning about the various races and racial groups of the world</p>

	<p align="center"><b>Unit I: Settlement Geography</b></p>	<p><b>CO<sub>9</sub>:</b> Identifying the cultural regions of India  <b>CO<sub>10</sub>:</b> Acquiring knowledge about rural and urban settlements.  <b>CO<sub>11</sub>:</b> Analyze the morphology and functions of rural and urban settlements. <b>CO<sub>12</sub>:</b> Learning the rural house types, census categories of rural settlements and idea of social segregation</p>
<p align="center"><b>GEOH: DSE-2: DSE2T: Resource Geography</b></p>	<p align="center"><b>DSE2T: Resource Geography</b></p>	<p><b>CO<sub>1</sub>:</b> Understanding the concept and classification of resources.  <b>CO<sub>2</sub>:</b> Understanding the approaches of resource utilization, management and development.  <b>CO<sub>3</sub>:</b> Assessing the distribution, utilization and management of different resources.  <b>CO<sub>4</sub>:</b> Appreciating the significance of resources and assessing the pressure on resources.  <b>CO<sub>5</sub>:</b> Analyzing the problems of resource depletion with special reference to forests, water, minerals and fossil fuels.  <b>CO<sub>6</sub>:</b> Understanding the distribution, utilization, problems and management of metallic and non-metallic mineral resources throughout the globe and nation.  <b>CO<sub>7</sub>:</b> Analyzing the contemporary energy crisis and assess the future scenario  <b>CO<sub>8</sub>:</b> Understanding the concept of Limits to Growth, resource sharing and sustainable use of resources.  <b>CO<sub>9</sub>:</b> Understanding the components and efforts and initiatives of sustainable development.  <b>CO<sub>10</sub>:</b> Learning to compute HDI, GDI, etc.</p>

<p><b>GEOH: DSE-2: DSE2T:</b>  <b>Fluvial Geomorphology</b></p>	<p><b>DSE2T:</b>  <b>Fluvial Geomorphology</b></p>	<p><b>CO<sub>1</sub>:</b> Examining the mechanisms and controls and functioning of rivers.  <b>CO<sub>2</sub>:</b> Interpretation of fluvial geomorphological maps and properties and its application in geographical research.  <b>CO<sub>3</sub>:</b> Assessing the anthropological factors operating and affecting landforms development.  <b>CO<sub>4</sub>:</b> Learning about the mechanism and working principle of fluvial geomorphic processes in details that are operating since historical time to shape present earth-surface.  <b>CO<sub>5</sub>:</b> Building up an understanding role of humans in shaping earth surface and regulating fluvial processes and their outcome on fluvial systems.  <b>CO<sub>6</sub>:</b> Considering the applied roles of Fluvial Geomorphology in sustainable resource management.</p>
<p><b>GEOH: DSE-2: DSE2T:</b>  <b>Social Geography</b></p>	<p><b>DSE2T:</b>  <b>Social Geography</b></p>	<p><b>CO<sub>1</sub>:</b> Assessment of various components of Social geography.  <b>CO<sub>2</sub>:</b> Understanding social space and the anthropogenic factors influencing it.  <b>CO<sub>3</sub>:</b> Assessing and examining the role of various social policies in Indian context.  <b>CO<sub>4</sub>:</b> Evaluating the social issues such as- racism, cast conflict, social distance.  <b>CO<sub>5</sub>:</b> Understanding the causes of social inequality and their impact on society.  <b>CO<sub>6</sub>:</b> Understanding indicators of social well-being and quality of life.  <b>CO<sub>7</sub>:</b> Understanding the social space, social groups and intra-urban mobility.  <b>CO<sub>8</sub>:</b> Estimating socio-cultural region of the world and India.  <b>CO<sub>9</sub>:</b> Learning about rural settlement morphology, urban-industrial landscape.  <b>CO<sub>10</sub>:</b> Analysng the social set-up in Indian villages.</p>

**B.Sc. (General) Semester-V****CORE COURSE**

<b>GEOG: DSC: DSE-1: DSEIT: Geography of India (Option-1)</b>	<b>DSEIT: Geography of India</b>	<p><b>CO1:</b> Understanding the physical and socio – cultural set up and profile of our country, India.</p> <p><b>CO2:</b> Making the base knowledge about nature, types and distribution of Indian soil, vegetation and climate.</p> <p><b>CO3:</b> Understanding the fate-fortune scenario of Indian population and related policy over time.</p> <p><b>CO4:</b> Appraisal of distribution, utilization and resource endowment of the country.</p> <p><b>CO5:</b> Developing the concepts of regionalization in India from physiographic, economic and socio-cultural points of view.</p> <p><b>CO6:</b> Making the analytical knowledge base about Green Revolution in India and growing importance of Automobile Industry and Information Technology throughout the nation.</p>
<b>GEOG: DSC: DSE-1: DSEIT: Disaster Management (Option- 2)</b>	<b>DSEIT: Disaster Management</b>	<p><b>CO1:</b> Understanding the fundamental concepts of hazard, disaster and extreme events.</p> <p><b>CO2:</b> Assess risk, perception and vulnerability with respect to hazards.</p> <p><b>CO3:</b> Prepare hazard zonation maps with the help of proper tools, techniques and technology.</p> <p><b>CO4:</b> Assessing the nature, impact and management of major natural and man-made hazards.</p> <p><b>CO5:</b> Analysing the roles of local bodies, panchayats and educational institutions on hazard mitigation: Awareness and action programmes</p> <p><b>CO6:</b> Developing concepts and skills regarding mitigation measures concerning various hazards.</p>

<p style="text-align: center;"><b>GEOG: DSC: DSE-1: DSEIT:</b></p>	<p style="text-align: center;"><b>DSEIT: Soil &amp; Biogeography</b></p>	<p><b>CO1:</b> Evaluating soil as a basic resource and also its distribution, problems and management.</p> <p><b>CO2:</b> Identifying the basic concepts of biosphere.</p> <p><b>CO3:</b> Understanding the dynamics of vegetal growth and climate.</p> <p><b>CO4:</b> Assessing different aspects of floral and faunal provinces.</p> <p><b>CO5:</b> Having knowledge about the character and profile of different soil types.</p> <p><b>CO6:</b> Understanding the impact of man as an active agent of soil transformation, erosion and degradation.</p> <p><b>CO7:</b> Recognizing land capability and classify it.</p> <p><b>CO8:</b> Explaining the Pedological and Edaphological Approaches to Soil Studies - Processes of soil formation, types of soil, and principles of soil and land classification; and management.</p> <p><b>CO9:</b> Understanding the varied ecosystems and classify them.</p> <p><b>CO10:</b> Recognizing the significance of biogeochemical cycles and biodiversity.</p> <p><b>CO11:</b> Comprehending the devastating impact of deforestation.</p> <p><b>CO12:</b> Identifying soil types and derive their pH.</p>
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<p style="text-align: center;"><b>SKILL ENHANCEMENT COURSE (SEC)</b></p>		
<p style="text-align: center;"><b>GEOG: SEC-3: SEC3T &amp; P: Remote Sensing &amp; GPS Based Project Work</b></p>	<p style="text-align: center;"><b>SEC3T &amp; P: Remote Sensing &amp; GPS Based Project Work</b></p>	<p><b>CO1:</b> Understanding the concept and development of Remote Sensing and knowledge achieving about the platforms and its types.</p> <p><b>CO2:</b> Understanding the Principles, Types and Geometry of Aerial Photography.</p> <p><b>CO3:</b> Understanding the Satellite Remote Sensing and its principles;</p> <p><b>CO4:</b> Estimating the EMR Interaction with Atmosphere and Earth Surface; Satellites (Landsat and IRS) and Sensors.</p> <p><b>CO5:</b> Interpreting and applying the Remote Sensing specifically in Land use/ Land Cover analysis.</p> <p><b>CO5:</b> Making the understanding about Global Positioning System (GPS) and its principles and uses</p> <p><b>CO6:</b> Enhancing the capability and skill to conduct the Field/ Project Work and make/ prepare the Field/ Project Report with the help of Remote Sensing and GPS.</p>

## Course Outcomes & Programme Outcomes

### B.Sc. (Honours) Semester-VI

Course Code & Title	Course Segment with Sub-title	Course Outcome	
<b>CORE COURSE [For Mother Discipline]</b>			
<b>GEOH: CC-13: C13T:</b> Evolution of Geographical Thought	<b>C13T:</b> Evolution of Geographical Thought	<b>Unit I: Nature of Pre Modern Geography</b>	<p><b>CO<sub>1</sub>:</b> The course incorporated the fundamental concepts of geographical thought.</p> <p><b>CO<sub>2</sub>:</b> Appreciation of evolution of geographical thought through time. <b>CO<sub>3</sub>:</b> Understanding the paradigm shift in geographical thinking in different regions of the world.</p> <p><b>CO<sub>4</sub>:</b> Assessing the past and future trends of development of different ideologies and establishing relationship of Geography with other traditional, upgraded and contemporary disciplines</p> <p><b>CO<sub>5</sub>:</b> It includes the premier concepts of geography at the time of its emergence to the past century (20<sup>th</sup> century).</p> <p><b>CO<sub>6</sub>:</b> Students will learn about the philosophical background that guides the approaches and ways of thinking to design teaching-learning and research under different discourses of Geography.</p> <p><b>CO<sub>7</sub>:</b> It aims to achieve a clear insight into theoretical foundation of the subject that is articulated among different courses and guides to design objectives and methodological framework of geographical enquiry.</p> <p><b>CO<sub>8</sub>:</b> This understanding helps the learners to locate themselves in the wide and dynamic philosophical domain of the discipline and help them to concentrate towards developing geography as a science of holistic synthesis.</p> <p><b>CO<sub>9</sub>:</b> Upon completion of this course, the students would have a comprehensive idea of the fundamental nature of Geography and how it evolves with time.</p>
		<b>Unit II: Foundation of Modern Geography &amp; Recent Trends</b>	
<b>GEOH: CC-14: C14T &amp; C14P:</b> Disaster Management	<b>C14T: Disaster Management</b>	<b>Unit I: Concept</b>	<p><b>CO<sub>1</sub>:</b> Understanding the fundamental concepts of hazard, disaster and extreme events.</p> <p><b>CO<sub>2</sub>:</b> Assess risk, perception and vulnerability with respect to hazards.</p> <p><b>CO<sub>3</sub>:</b> Prepare hazard zonation maps with the help of proper tools, techniques and technology.</p> <p><b>CO<sub>4</sub>:</b> Assessing the nature, impact and management of major natural and man-made hazards.</p> <p><b>CO<sub>5</sub>:</b> Preparation of field report on disaster and risk management.</p> <p><b>CO<sub>6</sub>:</b> Analysing the roles of local bodies, panchayats and educational</p>
		<b>Unit II: Disaster Case Studies</b>	

	<b>C14P: Disaster Management Based Project Book</b>	institutions on hazard mitigation: Awareness and action programmes <b>CO7:</b> Developing concepts and skills regarding mitigation measures concerning various hazards.
<b>DISCIPLINE SPECIFIC ELECTIVES COURSE (DSE) [For Mother Discipline]</b>		
<b>GEOH: DSE-3: DSE3T: Population Geography (Option-1)</b>	<b>Unit-1:</b>	<b>CO1:</b> Establishing population studies as a distinct field of human geography. <b>CO2:</b> Understanding the key concepts and components of population along with its drivers. <b>CO3:</b> Examining population dynamics and characteristics with contemporary issues.
	<b>Unit-2:</b>	<b>CO4:</b> Through this paper students will learn the various aspects of population growth process, its impact on economy, society and politics. <b>CO5:</b> Various policy regarding the control and development of human resources, their necessity, and outcome will be understood. This understanding will help them to take part in various govt schemes and programmes relating to population issues. <b>CO6:</b> The course is designed to give an account of the population and development debate including some of the measures of human development measurements. <b>CO7:</b> Students will also aware about the migration pattern of people from one place to other. <b>CO8:</b> Any planning activities relating to economy and population need such knowledge to proper implementation and outcome.
<b>GEOH: DSE-3: DSE3T: Political Geography (Option-2)</b>	<b>DSE3T: Political Geography</b>	<b>CO1:</b> Understanding the concept, scope and trends of Political Geography in relation to allied disciplines <b>CO2:</b> Understanding the concepts of nation, state and geo – political theories. <b>CO3:</b> Assessing the different dimensions of electoral geography and resource conflicts. <b>CO4:</b> Analyzing the politics of displacement, focusing on dams and SEZ. <b>CO5:</b> Students will develop their understanding on politics of space and spatial patterns of political and economic power distribution. <b>CO6:</b> This course will enable the Government in India based on the principle of regional disparities in India. <b>CO7:</b> They will also know about the nature of conflict at national and global level centered on water and power resources. <b>CO8:</b> They will develop their interest in analyzing factors and local as well as global implications of economic and political agglomerations in the form of economic and political blocs. <b>CO9:</b> This course is focused on the fundamental concepts of globalization and its overall impacts on agriculture, industry, trade and culture.

<b>GEOH: DSE-4: DSE4T &amp; DSE4P: Project Work (Option-3)</b>	<b>DSE4T &amp; DSE4P: Project Work</b>	<b>CO<sub>2</sub>:</b> Understanding knowledge about any project and project work. <b>CO<sub>3</sub>:</b> Understanding the methods and methodology for planning, conducting and completing any project work. <b>CO<sub>4</sub>:</b> Achieving the knowledge about field, reality, and its planning and development. <b>CO<sub>5</sub>:</b> Understanding the importance and relevance of project work. <b>CO<sub>6</sub>:</b> Enhancing the skills for any field related work. <b>CO<sub>7</sub>:</b> Capability enhancement to manage any problem and issue. <b>CO<sub>8</sub>:</b> Making the plan for development and management purpose.
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## B.Sc. (General) Semester-VI

### CORE COURSE

<b>GEOG: DSC: DSE-2: DSE2T: Economic Geography (Option-1)</b>	<b>DSE2T: Economic Geography</b>	<b>CO<sub>1</sub>:</b> Understanding the concept of Economic Geography and various economic activities. <b>CO<sub>2</sub>:</b> Understanding the approaches of resource utilization, management and development. <b>CO<sub>3</sub>:</b> Assessing the distribution, utilization and management of different resources and establishing the relation among population, development and environment in this 3-tier globe. <b>CO<sub>4</sub>:</b> Appreciating the significance of resources and assessing the pressure on resources. <b>CO<sub>5</sub>:</b> Analyzing the problems of resource depletion with special reference to forests, water, minerals and fossil fuels. <b>CO<sub>6</sub>:</b> Understanding the distribution, utilization, problems and management of metallic and non-metallic mineral resources throughout the globe and nation. <b>CO<sub>7</sub>:</b> Analyzing the contemporary energy crisis and assess the future scenario <b>CO<sub>8</sub>:</b> Understanding the concept of Limits to Growth, resource sharing and sustainable use of resources. <b>CO<sub>9</sub>:</b> Understanding the components and efforts and initiatives of sustainable development.
<b>GEOG: DSC: DSE-2: DSE2T: Urban Geography (Option-2)</b>	<b>DSE2T: Urban Geography</b>	<b>CO<sub>1</sub>:</b> Understand the nature, scope, approaches and recent trends in Urban Geography <b>CO<sub>3</sub>:</b> Understanding the fundamentals and patterns of urbanization. <b>CO<sub>4</sub>:</b> Learning functional classification of cities and various theories of urban growth and urban hierarchies. <b>CO<sub>6</sub>:</b> Tracing out the origin of urban places over time and analyze the factors, stages and characteristics of these places <b>CO<sub>7</sub>:</b> Analyzing the theories of urban evolution and growth, Hierarchy of urban settlements <b>CO<sub>9</sub>:</b> Understanding the concept of urban hierarchies <b>CO<sub>10</sub>:</b> Understanding the patterns of urbanization in developed and developing countries <b>CO<sub>11</sub>:</b> Understanding the ecological processes of urban growth; urban fringe; city-region <b>CO<sub>12</sub>:</b> Analyzing the models on city structure <b>CO<sub>13</sub>:</b> Identifying and analyzing the problems of housing, slums and civic amenities <b>CO<sub>14</sub>:</b> Understanding the patterns, trends and policy of urbanization in India

<p><b>GEOG: DSC: DSE-2: DSE2T: Population Geography (Option-3)</b></p>	<p><b>DSE2T: Population Geography</b></p>	<p><b>CO<sub>1</sub>:</b> Establishing population studies as a distinct field of human geography. <b>CO<sub>2</sub>:</b> Understanding the key concepts and components of population along with its drivers.  <b>CO<sub>3</sub>:</b> Examining population dynamics and characteristics with contemporary issues.  <b>CO<sub>4</sub>:</b> Through this paper students will learn the various aspects of population growth process, its impact on economy, society and politics.  <b>CO<sub>5</sub>:</b> Various policy regarding the control and development of human resources, their necessity, and outcome will be understood. This understanding will help them to take part in various govt schemes and programmes relating to population issues.  <b>CO<sub>6</sub>:</b> The course is designed to give an account of the population and development debate including some of the measures of human development measurements.  <b>CO<sub>7</sub>:</b> Students will also aware about the migration pattern of people from one place to other.  <b>CO<sub>8</sub>:</b> Any planning activities relating to economy and population need such knowledge to proper implementation and outcome.</p>
<p><b>SKILL ENHANCEMENT COURSE (SEC)</b></p>		
<p><b>GEOG: SEC-4: SEC4T &amp; P: Field Techniques and Survey Based Project Report</b></p>	<p><b>SEC4T: Field Techniques and Survey Based Project Report: Course Content</b></p>	<p><b>CO<sub>1</sub>:</b> Understanding Field Work in Geographical Studies  <b>CO<sub>2</sub>:</b> Knowledge achieving about the role, value and ethics of Field-Work.  <b>CO<sub>1</sub>:</b> Defining the Field and Identifying the Case Study – Rural / Urban / Physical / Human / Environmental.  <b>CO<sub>3</sub>:</b> Understanding the field techniques – merits, demerits and selection of the appropriate technique; observation (participant / non participant).  <b>CO<sub>4</sub>:</b> Making questionnaires (Open/ Closed / Structured / Non- Structured); and conducting interview with Special Focus on Focused Group Discussions for Primary data collection;  <b>CO<sub>5</sub>:</b> Understanding Space Survey Techniques (Transects and Quadrants, Constructing a sketch).</p>
	<p><b>SEC4P: Field Techniques and Survey Based Project Report: Practical</b></p>	<p><b>CO<sub>1</sub>:</b> Designing the Field Report having the basics as Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report.  <b>CO<sub>2</sub>:</b> Preparing an individual report based on primary and secondary data collected during field work.  <b>CO<sub>3</sub>:</b> Quality enhancement and skill development regarding any field/ project/ research work.</p>

## Programme Outcomes (PO) of B.Sc. in Geography

<b>PO<sub>1</sub></b>	Fostering the ability of the students to encounter practical problems with theoretical knowledge in Geography and Environment.
<b>PO<sub>2</sub></b>	Promotion of research aptitude and field work aptitude as well as laboratory based practical works for the students of Geography.
<b>PO<sub>3</sub></b>	Capacity enhancement of the students in spatial mapping on digital platform for the Geographical research and studies.
<b>PO<sub>4</sub></b>	Orientation of the students of Geography to develop competitive examinations aptitude among them including NET / SET/ and other professional jobs.
<b>PO<sub>5</sub></b>	Preparing students for Higher Academic programmes for institutes of National and International repute.
<b>PO<sub>6</sub></b>	On completion of the B. Sc. in Geography, students will be able to get absorbed in various Govt Departments (like Planning and Developmental commissions, forestry, environmental, and disaster management departments) travel agencies, manufacturing firms, etc. They can be the representative of higher education like M.Sc. in Geography or equivalent for running the career as cartographer (NATMO), surveyor (Survey of India), GIS and Remote Sensing experts, environmental planner, Environment Reporter, urban and regional planner, transportation manager, Teacher/Professor, etc. in near or far future.
<b>PO<sub>7</sub></b>	Instill confidence and develop of a sense of identity in facing the real world.
<b>PO<sub>8</sub></b>	Foster cooperation among students enabling them to connect and contribute towards teamwork activities.
<b>PO<sub>9</sub></b>	Develop effective communications skills that promote leadership qualities individually as well as within a group.
<b>PO<sub>10</sub></b>	Develop critical thinking and skills that train students to analyze problems and validate real life solutions.
<b>PO<sub>11</sub></b>	Prepare objective scientific approach so that students can address research problems in Applied Geography and allied fields.
<b>PO<sub>12</sub></b>	Strive towards making enlightened citizens with commitment and empathy to social concerns.
<b>PO<sub>13</sub></b>	Inculcate a sense of environmental ethics that focus research and concerns on sustainability.
<b>PO<sub>14</sub></b>	Inculcate strong moral and ethical values and a sense of discipline among the students.
<b>PO<sub>15</sub></b>	Ensure that the lessons are self-directed and lead to lifelong learning.