

**PROGRAMME OUTCOMES, PROGRAMME  
SPECIFIC OUTCOMES AND COURSE OUTCOMES  
FOR UNDER GRADUATE PROGRAMMES**

**PROGRAMME NAME: B.A. / B.SC. (HONS.) IN  
GEOGRAPHY UNDER SEMESTER WITH CHOICE  
BASED CREDIT SYSTEM (W.E.F. 2017- 2018)**



**DEPARTMENT OF GEOGRAPHY  
TEHATTA SADANANDA MAHAVIDYALAYA  
TEHATTA, PURBA BARDHAMAN, 713122**

## **PROGRAM OUTCOMES**

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. The honours programme in geography is designed to meet the students' specific educational and professional goals in applied field. It focuses on spatial studies, qualitative as well as quantitative analysis in context of human-environment relationship.

During the first semester of the programme, the students are trained on grasp the knowledge about geomorphology and geotectonic in application of various cartographic technique with the understanding of geological map. In the second semester they bring to the notion of human geography along with different cartograms, thematic mapping techniques and surveying techniques. The third semester allows them to concentrate on climatology, statistical methods in specific application to the field of geography along with a clear geographical understanding of India and West Bengal. In the fourth semester students are adequately enriched with the knowledge in economic geography, regional planning with its long term application on environmental geography. Students become fortunate to try their knowledge in the applied part of geography through the portion of research methodology introduced in the fifth semester along with the applications of remote sensing and GIS specific areas of the subject, on which they complete their field reports. After completing the course, the students will be amply prepared for professional careers in geography and allied disciplines like GIS. The historical perspective of geography and disaster management are the topics enhance the knowledge of students and able them to connect geography in their practical life.

### **1. Knowledge outcomes**

- Understanding the scope and evolution of the diverse discipline of Geography.
- Recognize, synthesize and evaluate diverse sources of knowledge, arguments and approaches pertinent to exploring human-environment problems. Explain societal relevance of geographical knowledge and apply it to real world human-environment issues.
- Appreciate and reflect critically on the importance of holistic and interpretative human-environment perspectives.
- Understanding the concept of applied geography from the corner of applying various cartographic techniques to portray a real space time based scenario. Able to synthesize the knowledge on surveying and real time map making through the very significant application of remote sensing and GIS in various part of our life.
- An understanding and acknowledgment of the threats that endanger the earth's natural systems. This helps in further realization of the significance of anthropogenic causes of many of the disasters and threats that puts life on this planet on the edge.

- 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.

## 2. Skill outcomes:

- Carry out surveying and learn the art of map making and prepare maps for the areas with the help of surveying techniques.
- Gain knowledge of quantitative methods and their ability to use statistical and cartographical methods to solve geographical problems.
- Construct various types of projections and scales as per requirement of the study.
- Collect primary and secondary data in the field.
- Apply various statistical formulas to analyse data.
- Use cartographic techniques with the help of simple software techniques like-MS Excel.
- Handle topographical and weather maps and interpret them.
- Identify types of rocks.
- Know about Geographical Information System (GIS) and Remote Sensing (RS)
- Prepare objective scientific approach so that students can address research problems in Applied Geography and allied fields. 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.

## 3. Behavioral Outcome:

- Foster cooperation among students enabling them to connect and contribute towards teamwork activities.
- Develop effective communications skills that promote leadership qualities individually as well as within a group.
- Develop critical thinking and skills that train students to analyze problems and validate real life solutions.
- Instill confidence and develop a sense of identity in facing the real world.
- Students become equipped with the ability to respond to both natural and man-made disasters and acquire management skills. This is attained through the curriculum by studying and analyzing hazards, disasters, their impact and management.
- 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, Environmental Studies, Disaster Management, Statistics, Remote Sensing and GIS, Resource Management and Conservation, Regional Planning and Development Studies etc.

**PSO1.Acquireing Knowledge of Physical Geography:** Student will gain the knowledge of physical geography. Student will have a general understanding about the geomorphological and geotechnical process and formation. They will be able to correlate the knowledge of physical geography with the human geography.

**PSO2. Correlate the knowledge of physical geography with the human geography:** Associating landforms with structure and process; establishing man-environment relationships; and exploring the place and role of Geography vis-a-sis other social and earth sciences. Students can easily correlate the knowledge of physical geography with the 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

**PSO3.** Understanding the functioning of global economic impact on everyday life : Understanding the functioning of global economies, geopolitics, global geostrategic views and functioning of political systems

**PSO4. Understand Environmental Ethics and Sustainability:** Understand the impact of the acquired knowledge in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development.

**PSO5.** Instilling cultural and social mindset towards the nation in understanding the unity in diversity : 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 analyzing the regional diversity of India through interpretation of natural and planning regions.

**PSO6.** 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

**PSO7. Understanding the historical chapters in progress of the subject:** Over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism,behaviouralism , idealism etc.

**PSO8. Ability of Problem Analysis:** Student will be able to analyse 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.

**PSO9. Conduct Social Survey Project:** They will be eligible for conducting social survey project which is needed for measuring the status of development of a particular group or section of the society.

**PSO10. Application of modern instruments:** Students will be able to learn the application of various modern instruments and by these they will be able to collect primary data.

**PSO11. Application of GIS and modern Geographical Map Making Techniques:** They will learn how to prepare map based on GIS by using the modern geographical map making techniques.

**PSO12. Development of Observation Power:** As a student of Geography Honours Course they will be capable to develop their observation power through field experience and in future they will be able to identify the socioenvironmental problems of a locality.

**PSO13. Development of Communication Skill and Interaction Power:** After the completion of the project they will be efficient in their communication skill as well as power of social interaction. Some of the students are being able to understand and write effective reports and design credentials, make effective demonstrations, and give and receive clear instructions.

**PSO14. Enhancement of the ability of Management:** Demonstrate knowledge and understanding of the management principles and apply these to their own work, as a member and leader in a team, to manage projects. They will perform effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PSO15. Life-long learning:** Identify the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of societal and environmental change.

## COURSE OUTCOMES

### SEMESTER—I

COURSE CODE	COURSE NAME	COURSE CREDIT	COURSE OUTCOME
CC1 (T)	Geotectonics and Geomorphology	6	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Understand the theories and fundamental concepts of Geotectonic and Geomorphology. Understand earth's tectonic and structural evolution. Gain knowledge about earth's interior. Develop an idea about concept of plate tectonics, and resultant landforms.</li> <li>• Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms.</li> <li>• Understanding crustal mobility and tectonics; with special emphasis on their role in landform development.</li> <li>• Overview and critical appraisal of landform development models.</li> </ul> <p><b>SKILL GAINED</b></p> <ul style="list-style-type: none"> <li>• Ability to record temperature, pressure, humidity and rainfall</li> <li>• Develop the skills of identification of features and correlation between them.</li> <li>• Do field surveys using appropriate techniques.</li> <li>• Identification of rocks and minerals.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• To cope up with continuous progress in geomorphology</li> </ul>
CC2 (T+P)	Cartographic Techniques and Geological map study	4 +2	<p><b>KNOWLEDGE GAINED</b></p> <p>Understand and prepare different kinds of maps. Recognize basic themes of map making. Development of observation skills.</p> <p><b>SKILLED GAINED</b></p> <p>Develop the skills on Cartographic Techniques and Geological map study</p>

**SEMESTER—II**

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COURSE CREDIT</b>	<b>COURSE OUTCOME</b>
CC3 (T)	Human Geography	6	<p><b>KNOWLEDGE GAINED</b></p> <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 approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations.</li> </ul> <p>Develop an idea about space and society</p> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Acquire knowledge and training to collect and analyze data from the primary and secondary sources</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Apply requisite analytical and technical skills in diverse fields of population</li> </ul>
CC4 (P)	Cartograms, Survey and Thematic Mapping	4+2	<p><b>KNOWLEDGE GAINED</b></p> <p>Comprehend the concept of scales and representation of data through cartograms.</p> <ul style="list-style-type: none"> <li>• Basic concepts of surveying and survey equipments: Abneys Level, Clinometer</li> <li>• Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite</li> <li>• Interpretation of Land use and land cover maps</li> </ul> <p><b>SKILLES GAINED</b></p> <ul style="list-style-type: none"> <li>• Learn the usages of survey instruments.</li> <li>• Brings direct interaction of different types of surveying instruments like Dumpy level and Theodolite with environment.</li> </ul> <p>Develop an idea about different types of thematic mapping techniques</p>

			<p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Ability to understand and read maps and develop cartographic skills by which they will be able to create maps on their own.</li> <li>• Applying the knowledge in producing appropriate and accurate cartographic images in dissertation work</li> </ul>
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### SEMESTER-III

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COURSE CREDIT</b>	<b>COURSE OUTCOME</b>
CC5 (T)	Climatology	<b>6</b>	<p><b>KNOWLEDGE GAINED</b></p> <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. Approaches to climate classification.</li> <li>• To analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.</li> </ul> <p><b>SKILLES GAINED</b></p> <ul style="list-style-type: none"> <li>• Prepare various climatic maps and charts and interpret them.</li> <li>• Learn to use of various meteorological instruments.</li> <li>• Learn the interaction between the atmosphere and the earth's surface. Understand the importance of the atmospheric pressure and winds.</li> <li>• Understand how atmospheric moisture works.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Response to global warming at individual as well as societal levels; responding to issues of climate change and its impacts.</li> <li>• Weather interpretation and forecasting with focus on application of hydrometeorology and agro-meteorology for future research work.</li> </ul>



CC6 (T+P)	Statistical Methods in Geography	(4+2)	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>•e-Learn the significance of statistics in geography. Understand the importance of use of data in geography</li> <li>•Recognize the importance and application of Statistics in Geography.</li> <li>• Know about different types of sampling.</li> <li>• Develop an idea about theoretical distribution.</li> <li>•Gain knowledge about association and correlation.</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Interpret statistical data for a holistic understanding of geographical phenomena.</li> <li>• Learn to use tabulation of data.</li> </ul> <p><b>COMPETENCY DEVELOPED</b> Identify the nature and strength of relationship among various parameters of geographical data.</p>
CC7 (T)	Geography of India and West Bengal	6	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Understand the physio-geographical set up of both India as a whole and West Bengal in particular</li> <li>• Understand the distribution of population, economic development and perspective of regional planning and development for India and West Bengal as well.</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Drawing, synthesizing and analyzing maps of India and West Bengal</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Ability to develop the critical judgment and logical understanding in arguing the present geo-political, socio-cultural and economic issues of India and West Bengal.</li> </ul>
SEC-1	Computer Basics and Computer Applications/ Remote Sensing	2	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Understanding Numbering Systems</li> <li>• Data Computation and management</li> </ul>

			<p><b>SKILLS GAIENED</b></p> <ul style="list-style-type: none"> <li>• Data interpretation with annotated Diagrams</li> <li>• Internet surfing</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Ability understand the computer based language and apply them real time situation</li> </ul> <p><b>Remote Sensing</b></p> <p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Gain knowledge on Remote Sensing of the environment, interaction of EMR with earth surface features its characteristics; spectral regions; elements of Visual Image Interpretation for Mapping and database-cum-information extraction.</li> </ul> <p><b>SKILL GAINED</b></p> <ul style="list-style-type: none"> <li>• Develop knowledge about the theoretical bases, principles, types and application of Remote sensing techniques maps.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Students can efficiently assess the scientific principles of Remote Sensing Techniques and observe and apply satellite based remote sensing data</li> </ul>
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### SEMESTER-IV

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COURSE CREDIT</b>	<b>COURSE OUTCOME</b>
CC8 (T)	Regional Planning and Development	6	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Concepts of region, regionalization and regional planning; theories on recent development; concept on inequality and regional disparity.</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Delineation of formal and functional region</li> <li>• Identity the best measures of inequality and</li> </ul>

			<p>various indicators of regional development.</p> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>Analyze the interstate imbalance in India with respect to various indicators of development.</li> <li>Ability to prepare plans for development in backward region and backward group.</li> </ul>
CC9 (T)	Economic Geography	6	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>Understand the concept of economic activity, factors affecting location of economic activity. Gain knowledge about different types of Economic activities</li> <li>Assess the significance of Economic Geography, the concept of economic man and theories of choice.</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>Analyze the factors of location of agriculture and industries.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>Understand the evolution of varied types of economic activities.</li> <li>Map and interpret data on production, economic indices, transport network and flows.</li> </ul>
CC10 (T+P)	Environmental Geography	4+2	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>Understand Geographers' Approach to Environmental Studies and Changes in Perception of Environment in different stages of Human Civilization.</li> <li>Concept of ecosystem, ecology and biodiversity and impact of pollution over it.</li> <li>Formation of urban heat island, and global pollution</li> <li>Urban Environmental issues related to Waste Management</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>Preparation of questionnaire for perception survey on environmental problems</li> </ul>

			<ul style="list-style-type: none"> <li>• Environmental Impact Assessment: Leopold Matrix</li> <li>• Quality assessment of soil using field kit: pH and NPK</li> <li>• Interpretation of air quality using CPCB / WBPCB data</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Knowledge to understand overall anthropogenic impact on environment and develop environmental ethics.</li> </ul>
SEC -2 (P)	Advanced Spatial Statistical Techniques/ Field work	2	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Know about Probability and Normal Distribution and their Geographical Applications,Skewness.</li> <li>• Differences between Spatial and non-Spatial data,Nearest Neighbour Analysis</li> <li>• Gain knowledge about orrelation and Regression Analysis, t-test, Spearman's Rank Correlation, Product Moment Correlation; Linear Regression</li> <li>• Time Series Analysis</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Interpret statistical data for a holistic understanding of geographical phenomena.</li> <li>• Learn to use tabulation of data.</li> <li>• Have expertise in identification of area of study, methodology, quantitative and quantitative analysis, andconclusions to be drawn about the area – fundamental togeographical research.</li> <li>• Handle logistics and other emergencies on field.</li> <li>• Develop skills in photography, mapping and videorecording.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <p>Identify the nature and strength of relationship among various parameters of geographical data.</p>

### SEMESTER-V

COURSE CODE	COURSE NAME	COURSE CREDIT	COURSE OUTCOME
CC11 (T+P)	Research Methodology and Fieldwork	4+2	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Significance of Literature review in research</li> <li>• Defining research problem, objectives and hypothesis. Research materials and methods</li> <li>• Techniques of writing scientific reports: Preparing notes, references, bibliography</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Have expertise in identification of area of study, methodology, quantitative and quantitative analysis, and conclusions to be drawn about the area – fundamental to geographical research.</li> <li>• Handle logistics and other emergencies on field.</li> <li>• Develop skills in photography, mapping and videorecording.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Develop logical and analytical mind in understanding and solving the real time problems and find prospects out of the situation.</li> </ul>
CC12 (T+P)	Remote Sensing And GIS	4+2	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Have knowledge of the principles of remote sensing, sensor resolutions and image referencing schemes.</li> <li>• Interpret satellite imagery and understand the preparation of false color composites from them.</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Training in the use Geographic Information System (GIS) software for</li> </ul>

			<p>contemporary mapping skills.</p> <ul style="list-style-type: none"> <li>• Analyzing and interpreting remotely sensed satellite images and aerial photographs in order to understand topographical and cultural variations on the Earth's surface.</li> <li>• Conducting field excursions and preparation of fieldreport on research on problem in different areas of India</li> <li>• Apply GIS to the preparation of thematic maps.</li> <li>• Use of GNSS.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Students can efficiently assess the scientific principles of Remote Sensing Techniques and observe and apply satellite based remote sensing data.</li> </ul>
DSE-1 (T)	Urban Geography/ Cultural and Settlement Geography	6	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Develop deeper understanding of Urban geography</li> <li>• Focus on establishing in-depth knowledge on spatial and temporal basis of urban studies; physical, social, cultural and economic setup of urban centers with special reference to India.</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Helps to understand, analyse and interpret the morphology of urban centres</li> <li>• Learn the significance of human activities, physical-biological and cultural phenomena, across temporal and spatial variations, that influence the urban landscape.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Acquire competency to address a variety of contemporary issues in the light of rapid expansion of the dynamic discipline</li> <li>• Understand and appreciate the value of different perspectives to examine the complexities of urban life and the</li> </ul>

			<p>consequences inherent in the built-up environment</p> <p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Acquire clear concepts of cultural diversity, landscape etc.</li> <li>• rural and urban settlements</li> <li>• Greater understanding of origin and distribution of settlements; its classifications; settlement structure and settlement hierarchy; models and theories explaining morphology of rural and urban centres</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Fosters an ability to think in spatial terms, using geographic principles to understand the past as well and present growth of settlements</li> <li>• Inculcate a greater understanding of man-land relationship that is crucial for sustainable development</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Development of theoretical and methodological approaches in culture and settlement</li> </ul>
DSE-2 (T)	Population Geography/ Social Geography	6	<p><b>Population Geography</b></p> <p><b>KNOWLEDGE GAINED:</b></p> <ul style="list-style-type: none"> <li>• Acquire clear concepts of population geography and demographic studies</li> <li>• Greater understanding of nature, scope and evolution of population geography through spatial and temporal frameworks; population dynamics; world population and development with special reference to India.</li> </ul> <p><b>SKILLS GAINED:</b></p> <ul style="list-style-type: none"> <li>• Acquiring, handling and analyzing population data both at the grassroots level and secondary sources</li> <li>• Assessment of vital statistics of population data</li> </ul> <p><b>COMPETENCY DEVELOPED:</b></p> <ul style="list-style-type: none"> <li>• Acquire and interweave theoretical foundation for addressing research issues related to population dynamics in the real world</li> <li>• Assess resource management vis-à-vis population growth in the local and national context</li> </ul>

			<p><b>Social Geography</b></p> <p><b>KNOWLEDGE GAINED:</b> • Concept of Social Well-being, • Quality of Life Indicators of Social Well-being after Knox and Smith• Social Pathology: Crime and Violence• Social Area Analysis after Shevky and Bell• Social Impact Assessment (SIA): Concept and Importance • Social Policies in India: Sarva Shiksha Abhiyan and NRHM</p> <p><b>SKILLS GAINED:</b> Acquiring, handling and analyzing social data both at the grassroots level and secondary sources • Assessment of vital statistics of sociological data</p> <p><b>COMPETENCY DEVELOPED:</b> • Acquire and interweave theoretical foundation for addressing research issues related to population dynamics in the real world</p>
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### SEMESTER-VI

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COURSE CREDIT</b>	<b>COURSE OUTCOME</b>
CC13	Evolution of Geographical Thought	6	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Acquire basic concepts in geographical thoughts through ancient, medieval and modern periods; recent trends and explanations in geography</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Develop philosophical and historical aptitude among students in the context of evolution and development of geographical ideas, theme, approaches and knowledge</li> <li>• Acquaint students with the philosophers of different schools of thought that have contributed in the development of geography as a branch of knowledge.</li> </ul>



			<p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Understanding of the basic theme, ideas, dichotomies and approaches of geographic knowledge</li> <li>• Critically evaluate the nature of geography as spatial science with changing space and time</li> </ul>
CC14	Disaster Management	4+2	<p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• Classification of hazards and disasters, Approaches to hazard study: Risk perception and vulnerability assessment. Hazard paradigms, Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Hazards mapping: Data and techniques.</li> <li>• Risk assessment and vulnerability assessment</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Enhancing the ability to understand the cause and effect of hazard and reason for turning them into disaster.</li> <li>• Develop the ability to assess the risk to minimize the causalities.</li> </ul>
DSE-3	Fluvial Geomorphology/ Resource Geography	6	<p><b>Fluvial Geography</b></p> <p><b>KNOWLEDGE GAINED:</b> • Advanced knowledge in fluvial geomorphology develop advanced knowledge in fluvial geomorphology which deals with the action of the flow of water in the development of landform. Different mechanisms and processes both traditional and contemporary have been included to cover up the important aspects of the subject.</p> <p><b>SKILL DEVELOPED:</b> • Ability to understand process and mechanism involved in fluvial action for landform development.</p> <p><b>COMPETENCY DEVELOPED:</b> • Use of this knowledge in further academic development</p>

			<p><b>Resource Geography</b></p> <p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• In-depth knowledge of climate, natural vegetation, agriculture and energy resources and industries .</li> </ul> <p><b>SKILLS GAINED</b></p> <ul style="list-style-type: none"> <li>• Conceptualize the regional approaches and to examine regional differentiation in the study of India</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Recognize regional identities and environmental dimension of regionalization to address the issues and concern needed for regional planning and sustainable resource management</li> </ul>
DSE-4	Soil and Biogeography/ Agricultural Geography	6	<p><b>Soil and Biogeography</b></p> <p><b>KNOWLEDGE GAINED</b></p> <ul style="list-style-type: none"> <li>• The distribution patters of the plants and animals and the processes involved focusing on its development and content, the concept of habitat, plant-animal association, zoogeography as well as phytogeography with the objectives of understanding the geography of living organism in the earth in a more analytical perspective.</li> </ul> <p><b>SKILL DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Ability to see the animate world from geographical perspective.</li> </ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"> <li>• Use of the knowledge in further academic development.</li> </ul> <p><b>Agricultural Geography</b></p> <p><b>KNOWLEDGE GAINED</b></p> <p>Physical and Human Influences on the Distribution of Agricultural Systems, Agro-climatic Regions of India, Green Revolution in India: Problems and Prospects, Agricultural Credit and Marketing: NABARD</p>

			<p><b>SKILL DEVELOPED</b></p> <ul style="list-style-type: none"><li>• Ability to apply various perspective of agricultural models and crop combination and diversification.</li></ul> <p><b>COMPETENCY DEVELOPED</b></p> <ul style="list-style-type: none"><li>• Use of the knowledge in further social area development for agrarian people and future agricultural development.</li></ul>
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