**COURSE OUTCOMES**

**Department of Geography**

**Geography (M.A.)**

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| **S No** | **Class & Semester/ Year** | **Course & Course Code** | **COs** | **Course Outcomes** |
| 08 | M.A. 1st Sem. | GEOGRAPHTCAL THOUGHT (MGE6101T) | CO 1 | Able to Recall the historical development of geography and its major contributors. |
| CO2 | Able to Understand the scope, nature, and evolving paradigms in geography. |
| CO3 | Able to Apply knowledge of geographical theories and approaches to analyze geographical problems. |
| CO4 | Able to Analyze the evolution of geographical thought and its impact on modern geographical theories. |
| 09 | M.A. 1st Sem. | Geomorphology  (MGE6102T) | CO1 | Able to Recall the key concepts related to the geomorphology. |
| CO2 | Able to Explain the processes of earth movements |
| CO3 | Able to Apply the concepts of erosional and depositional works of rivers, wind, glaciers, and other forces in shaping the landscape. |
| CO4 | Able to Analyze the application of geomorphological studies in understanding human activities and their impact on human welfare, and evaluate the causes, consequences, and mitigation strategies for geomorphic hazards. |
| 10 | M.A. 1st Sem. | CLIMATOLOGY & OCEANOGRAPHY (MGE6103T) | CO 1 | Able to Recall the composition and structure of the atmosphere, types of winds, and the distribution of global temperatures. |
| CO2 | Able to Explain the processes of cloud formation, types of precipitation, and the mechanism of monsoon systems. |
| CO3 | Able to apply the impact of climate change, global warming, and ozone depletion on the world’s climate systems and ecosystems. |
| CO4 | Able to Compare and contrast the different theories of tides and their impact on marine environments, considering theories by Newton, Whewell, and Harris. |
| 11 | M.A. 1st Sem. | REPRESENTATION OF PHYSICAL AND CULTURAL LANDSCAPES AND CLIMATIC DATA (MGE6104P) | CO 1 | Able to Recall fundamental concepts related to cartography, maps, and weather analysis. |
| CO2 | Able to Understand the principles behind cartographic techniques, topographic maps, and weather map interpretation. |
| CO3 | Able to Apply cartographic and weather analysis techniques to real-world scenarios and data. |
| CO4 | Able to Analyze and interpret the impact of climatic patterns on physical and cultural landscapes using advanced cartographic and weather analysis techniques. |
| 12 | M.A. 1st Sem. | ENVIRONMENTAL GEOGRAPHY (MGE6105T) | CO 1 | Able to Definitions and scope of environmental geography, Define biodiversity and list conservation methods |
| CO2 | Able to Explain human ecology and describe food chains, food webs, and ecological pyramids. |
| CO3 | Able to Identify biodiversity hotspots in India and apply conservation measures. |
| CO4 | Able to Analyze causes and consequences of climate change, ozone depletion, and other issues. |
| CO5 | Able to Evaluate the effectiveness of international environmental agreements. |
| 13 | M.A. 3rd Sem. | Advanced Geography of India (MGE 301) | CO 1 | Able to Understand the geological structure and its influence on the relief features of India. |
| CO2 | Able to Evaluate the characteristics and distribution of soils, minerals, and other natural resources in India. |
| CO3 | Able to Analyze climatic divisions and their impact on agro-climatic regions and agricultural practices. |
| CO4 | Able to Assess the problems and planning required for resource development, particularly in power, industry, transport, and water-sharing. |
| CO5 | Able to Understand regional issues related to economic and resource development and their impact on regional disparities. |
| 14 | M.A. 3rd Sem. | Disaster Perception and Management in India (MGE 302(C02) | CO 1 | Able to Define disaster management, explain its importance, and identify its scope and relevance in reducing disaster risks |
| CO2 | Able to Classify and describe different types of natural (floods, droughts, earthquakes, landslides, cyclones, forest fires, tsunamis) and man-made (industrial accidents, deforestation, mining, urbanization) hazards |
| CO3 | Able to Analyze how hazards, risks, and vulnerabilities contribute to the occurrence and impact of disasters. |
| CO4 | Able to Critically evaluate how climate change contributes to the frequency, intensity, and types of natural hazards. |
| CO5 | Able to Understand and describe the different phases of disaster management: pre-disaster, emergency, and post-disaster, and the specific actions and strategies in each phase. |
| 15 | M.A. 3rd Sem. | Urban Geography (MGE 303(D02)) | CO1 | Able to R**ecall** the concept related to Urban Geography |
| CO2 | Able to E**xplain** the classification of cities based on their functions, and the urban rank-size relationship and its implications on urban development both globally and in India. |
| CO3 | Able to A**pply** theories and models of urban structure to analyze the functional areas of cities in different historical and contemporary settings. |
| CO4 | Able to A**nalyze** the factors that contribute to urbanization challenges in different regions and **evaluate** the impact of urban problems. |
| 16 | M.A. 3rd Sem. | Political Geography (MGE 304(E01)) | CO1 | Able to Recall the Key Concepts of Political Geography |
| CO2 | Able to Explain the Theories of Political Geography. |
| CO3 | Able to Apply Political Geography Models to Electoral Systems and Political Studies in India. |
| CO4 | Able to Analyze the Geostrategic Regions and Global Political Power Dynamics. |
| 17 | M.A. 3rd Sem. | Practical Geography (MGE 305) | CO1 | Able to Recall methods and techniques for relief representation and topographical map interpretation. |
| CO2 | Able to Understand the principles behind the methods and techniques of relief representation and topographical map analysis. |
| CO3 | Able to Apply techniques for relief representation and map interpretation in practical exercises. |
| CO4 | Able to Analyze topographical maps and aerial photographs to identify and interpret landforms, cultural features, and land use. |

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| **S No** | **Class & Semester/ Year** | **Course & Course Code** | **COs** | **Course Outcomes** |
| 01 | B.A. 2nd Sem. | Physical Geography - II (Climatology and Oceanography)  (GEO5101T) | CO 1 | Able to Identify key components of the atmosphere and oceanography |
| CO2 | Able to Describe climatic systems and environmental issues. |
| CO3 | Able to Apply knowledge of oceanography to environmental processes |
| CO4 | Able to Analyze the relationship between atmospheric and oceanic phenomena |
| 02 | B.A. 2nd Sem. | Practical Paper-II (GEO5201P) | CO 1 | Able to Recall and identify different methods of relief representation and weather instruments. |
| CO2 | Able to Explain the principles and techniques of relief representation and weather interpretation. |
| CO3 | Able to Apply knowledge of relief representation techniques and weather instruments in practical scenarios. |
| CO4 | Able to Analyze the features of landscapes and weather conditions using practical tools and methods. |
| 03 | B.A. 2nd Sem. (Minor) | Weather phenomena and their measurement  (GEO5202T) | CO 1 | Able to Able to define weather and identify the primary weather observing variables. |
| CO2 | Able to Explain how instruments are used to measure different weather variables. |
| CO3 | Able to Apply their knowledge to measure and record and relative humidity using appropriate weather instruments in a practical setting. |
| CO4 | Able to Analyze weather data and use the tools and resources of IMD to interpret weather maps and make simple weather forecasts. |
| 04 | B.A. 4th Sem. | **Resources Geography**  GEO5004T | CO 1 | This course give a holistic view of the water environments i.e., hydrology seen as a water carrier in nature with human influence. |
| CO2 | To know diverse methods of collecting the hydrological, biological information, which is essential to understand surface and groundwater hydrology? |
| CO3 | To develop an understanding of how this knowledge may be applied in practice in an economic and environmentally sustainable manner. |
| 05 | B.A. 6th Sem. | BA-DSE-613  Disaster Management | CO1 | This course shall introduce the basic concepts related to disaster management. |
| CO2 | This paper shall elucidate about disasters in India. |
| CO3 | This course shall provide detailed understanding related to human induced disasters, |
| 06 | B.A. 6th Sem. | Field Techniques and Survey based Project Report  BA-SEC-613 | CO1 | This course shall introduce students to the practical aspects of geographical research. |
| CO2 | The course focuses on equipping students with the skills and knowledge needed for effective fieldwork, which is crucial in geographical studies. |
| CO3 | Through this course, students will learn the significance of fieldwork, various data collection techniques, and how to analyze and interpret field data. |
| CO4 | The course also emphasizes ethical considerations, designing case studies, and writing comprehensive field reports. |
| 07 | B.A. 6th Sem. | Sustainability and Development  BA-GE-613 | CO 1 | This course shall introduce the basic concepts related to Sustainability for Development. |
| CO2 | This paper shall elucidate about Ecosystems.. |
| CO3 | This course shall provide detailed understanding related to Global Cooperation for Climate Change |
| 08 | M.A. 2nd Sem. | RESEARCH METHODOLOGY  MGE6201T | CO1 | Develop Comprehensive Research Skills  Gain proficiency in identifying research problems, reviewing literature, formulating objectives, and developing hypotheses. |
| CO2 | Apply Research Methodologies  Utilize appropriate qualitative, quantitative, or mixed-method approaches tailored to specific research contexts. |
| CO3 | Master Data Collection and Analysis Techniques  Design and implement effective data collection strategies, and apply statistical methods for rigorous data analysis |
| CO4 | Adopt Ethical Research Practices  Understand plagiarism, research ethics, and publication standards, ensuring responsible and credible scholarship. |
| CO5 | Enhance Scholarly Communication  Learn to write well-structured dissertations or research reports using standard citation styles, contributing to the academic and professional community. |
| 09 | M.A. 2nd Sem. | HUMAN GEOGRAPHY (MGE6202T) | CO1 | Define and explain the foundational concepts of human geography and its principles. |
| CO2 | Understand and interpret the paradigms of human-environment interactions, human races, and the socio-economic life of tribes. |
| CO3 | Apply knowledge of population dynamics, human settlements, urbanization, and migration theories to real-world situations. |
| CO4 | Analyze and evaluate global issues related to migration, urbanization, population, and human development. |
| 10 | M.A. 2nd Sem. | POPULATION GEOGRAPHY (MGE6203T) | CO 1 | Able to recall the key terms and concepts in population geography. |
| CO2 | Able to interpret composition of population data from various sources of world and in India. |
| CO3 | Able to apply population theories to analyze contemporary population issues. |
| CO4 | Able to Analyze the relationship between population growth and development. |
| 11 | M.A. 2nd Sem. | PRACTICAL Geography (MGE6204P) | CO 1 | Able to Recall and identify various types of data, data collection methods, and statistical tools used in geography. |
| CO2 | Able to Understand the principles and techniques for constructing and interpreting various types of diagrams and graphs for data representation. |
| CO3 | Able to Apply statistical tools and graphical methods to analyze geographical data and measure spatial patterns. |
| CO4 | Able to Analyze complex geographical data to measure association and spatial distribution patterns using advanced statistical methods. |
| 12 | M.A. 2nd Sem. | URBAN GEOGRAPHY (MGE6205T) | CO 1 | Able to Understanding Urban Geography and Historical Growth  Students will gain a comprehensive understanding of the nature, scope, and historical development of urban geography, including the origins and growth patterns of urban centers from ancient to modern periods. |
| CO2 | Able to Analyzing Urbanization and Spatial Patterns  tudents will critically evaluate global and Indian trends in urbanization, analyze the spatial distribution and functional dynamics of urban centers, and explore the development of conurbations and megalopolises. |
| CO3 | Able to Applying Theoretical Models of Urban Land Use  Students will apply theoretical models, including those by Burgess, Hoyt, Harris-Ullman, and others, to understand urban land use, the Central Business District (CBD), and zones of transition in urban areas. |
| CO4 | Able to Examining Urban Hierarchies and Settlement Systems  Students will study urban hierarchies and settlement systems through concepts like the Rank-Size Rule, Primate City Index, and theories of Central Place by Christaller and Losch, while critically exploring new urban concepts like smart cities and global cities. |
| 13 |  |  | CO5 | Able to Addressing Urban Challenges and Policies  Students will develop insights into urban environmental challenges, such as urban heat islands, solid waste management, and urban floods, and evaluate urban policies like the Smart City Mission and National Urban Policy Frameworks for sustainable urban development. |
| 14 | M.A. 4th Sem. | Geography of Rajasthan (MGE 401) | CO1 | Able to Identify and describe the major physical features of Rajasthan including its geological structure, relief, and drainage systems. |
| CO2 | Able to Understand the processes of desertification, soil erosion, and drought, and the conservation measures adopted for these problems. |
| CO3 | Able to Apply knowledge to analyze the problems related to the water resources, irrigation, and soil conservation in Rajasthan. |
| CO4 | Able to Analyze the impact of physical aspects such as climate and relief on agriculture and irrigation systems in Rajasthan. |
| CO5 | Able to Develop a comprehensive plan for sustainable development that integrates the physical, economic, and socio-cultural aspects of Rajasthan’s geography. |
| 15 | M.A. 4th Sem. | Geography of Water Resource (MGE 402(F01)) | CO1 | Able to Explain the components of the hydrologic cycle and how they contribute to water storage and distribution. |
| CO2 | Able to Explain the processes of the hydrologic cycle and water storage in glaciers, rivers, lakes, groundwater, etc. |
| CO3 | Able to Apply knowledge of the hydrologic cycle to calculate water storage in specific geographical areas. |
| CO4 | Able to Analyze how these processes vary based on geographical location and environmental conditions. |
| CO5 | Able to Assess the suitability of various water harvesting methods for different environmental conditions. |
| 16 | M.A. 4th Sem. | Agricultural Geography (MGE 403(G02)) | CO1 | Able to Recall key concepts related to the origin, nature, and dispersal of agriculture. |
| CO2 | Able to Explain various factors that influence agricultural geography. |
| CO3 | Able to Apply their understanding of agricultural geography to assess the suitability of different types of agriculture based on physical and economic factors in various regions. |
| CO4 | Able to Analyze the effectiveness of current agricultural policies in India, in solving issues like drought and flood management. |
| 18 | M.A. 4th Sem. | Biogeography (MGE 404(H02)) | CO1 | Able to **Recall and define** the basic concepts of **Bio-geography.** |
| CO2 | Able to **Explain** the **relationship between energy flow** in ecosystems. |
| CO3 | Able to **Apply** the knowledge of **Bio-geochemical cycles** to analyze the role of ecosystems in maintaining environmental balance. |
| CO4 | Able to **Analyze** the **factors controlling the distribution of forests** and **assess** the distribution and characteristics of different **biomes.** |
| 18 | M.A. 4th Sem. | Practical Geography (MGE 405) | CO1 | Able to Recall and identify surveying instruments and their functions. |
| CO2 | Able to Understand the principles and techniques of field surveying and map preparation. |
| CO3 | Able to Apply surveying techniques and instruments for practical fieldwork and data collection. |
| CO4 | Able to Analyze survey data and prepare accurate maps and reports based on fieldwork. |