

COURSE OUTCOMES

BSc GEOGRAPHY

SEMESTER I

GG 1141 : FUNDAMENTALS OF GEOMORPHOLOGY

CO1: Understand origin and evolution of Universe/Solar System

CO2: Critically analyse Continental Drift and Plate Tectonics

CO3: Identify major earthquake and volcanic zones of the Earth

CO4: Appreciate and evaluate various endogenic processes

CO5: Critical understanding of exogenic processes and soil Formation

GG 1142 : PRACTICAL PAPER

PHYSICAL GEOGRAPHY

CO1: Understand Latitudes and Longitudes

CO2: Identifies the various erosional and depositional landform features

CO3: Analyses and interprets weather station models

CO4: Illustrates the relief of the ocean floor and ocean currents

CO5: Explore the uses advantages of online maps daily life

SEMESTER II

GG 1221 : CLIMATOLOGY & OCEANOGRAPHY

CO1 : Understand the global atmospheric circulation

CO2 : Critically examine the distribution of pressure systems and winds

CO3 : Identify different forms of condensation,
precipitation and tropical weather systems

CO4 : Appreciate the bottom topography of oceans

CO5 : Critically analyse the environmental issues
associated with Oceans

SEMESTER III

GG 1341 : CARTOGRAPHY

CO1: Appreciates the historical evolution of maps

CO2: Acquires skills in enlargement and reduction of maps

CO3: Understanding the principles of Map Design

CO4: Evaluates the maps prepared for various users/purposes

CO5: Familiarizes the latest technologies used in Cartography

GG 1342 : PRACTICAL PAPER

CARTOGRAPHIC TECHNIQUES

CO1 : Understanding the concept of scales

CO2 : Acquiring skills in using magnetic compass

CO3 : Differentiate between Projected and Geographic coordinate
Systems

CO4 : Acquire skills in geometrical construction of map

Projections

SEMESTER IV

GG 1441 : HUMAN GEOGRAPHY

CO1 : Critical understanding of the nature and scope of Human
Geography through a thorough appreciation of the various
approaches, and contributions made by renowned geographers

CO2: Familiarize with basic concepts and models of spatial interaction and thereby analyze the factors controlling spatial interaction and how it modifies the earth's surface

CO3: Evaluate how culture and its components diffuse, modify and restructure the earth's surface

CO4: Holistic understanding of the major languages and religions

CO5: Enhance the understanding of human settlements through a critical appraisal of its types, patterns, functions and problem

SEMESTER V

GG 1541 : PHYSICAL GEOGRAPHY OF INDIA

CO1: Understanding the physical characteristics of India

CO2: Acquiring knowledge regarding the drainage systems of India

CO3: Examines the concept of Monsoon and its causes

CO4: Understanding the importance and status of natural resources in India

CO5: Acquiring comprehensive knowledge about the environmental issues

GG 1542 : ECONOMIC AND SOCIAL GEOGRAPHY OF INDIA

CO1: Understanding the history of economic development in India

CO2: Developing a cognitive understanding of the distribution of resource potentials in the country

CO3: Developing skills in mapping the spatial distribution of various resources

CO4: Critically analyses the demographic profile of India

GG 1543 : FUNDAMENTALS OF REMOTE SENSING AND GIS

CO1 : Understand the principles of Remote Sensing system

CO2 : Apply GIS and remote sensing data in various areas of Geographical and Environmental Studies

CO3 : Interpret satellite images and aerial photos with the help of elements of visual image interpretation

CO4 : Conduct Field surveys using GPS system

CO5 : Integrate data from various sources for GIS analysis

GG 1544 : PRACTICAL II

TECHNIQUES OF DATA COLLECTION

CO1 : Shall become aware of various primary data collection techniques

CO2 : Will have acquired the skill of collecting data and organising them using various methods

CO3 : Will be able to prepare an effective questionnaire

CO4 : Will enhance the skill to find directions and make rough estimate of distances during field survey

CO5 : Will develop the skill to use GPS for finding location and altitude of places

GG 1545 : PRACTICAL – III

MAP READING AND SPATIAL INFORMATION TECHNIQUES

CO1: Will acquire skills in representing relief using contours

CO2: Identify Grid references,conventional signs and symbols used in topographical maps

CO3 : Interpret physical and cultural features represented in topographical maps

CO4 : Comprehend techniques of estimating slope from maps

CO5: Will acquire knowledge on Georeferencing and Digitizing

OPEN COURSE

GG 1551.1 : GEOGRAPHY OF TOURISM

CO1: Analyses various types of tourism and their geo-backup

CO2: Examine the elements of tourism and its significance in the growth and development of tourism

CO3: Evaluate the significance of tourism in the cultural, social and economic milieu of geographic spaces

CO4: Recognize the role of various travel agencies in tourism

CO5: Understand the spatial dimensions of tourism attractions at state and local level

SEMESTER VI

GG 1641 : GEOGRAPHY OF KERALA

CO1: An in-depth knowledge on evolution and physical settings

CO2: Appreciate Agricultural development of Kerala

CO3: Evaluate Mineral and Power Resources of Kerala

CO4: Analyse Industrial Development of the state

CO5: Understanding Population composition and transportation networks of Kerala

GG 1642 : WORLD REGIONAL AND ECONOMIC GEOGRAPHY

CO1: Understand the concept of a Region and classify methods of delineation of regions

CO2: Identify major Natural Regions and differentiate their

physical and economic Characteristics

CO3: Classify Natural Resources and understands the concept of Sustainable Development

CO4: Analyze the role of MNC's and TNC's in globalizing world Trade

GG 1643 : PRACTICAL PAPER IV

REPRESENTATION AND INTERPRETATION OF GEOGRAPHIC DATA

CO1: Ability to represent socio-economic data through graphs and diagrams

CO2: Acquire skills to represent climatic data

CO3 : Develop skills to analyse and interpret Weather maps

CO4: Acquire basic awareness on Computers and MS Office Applications

GG 1644 : PRACTICAL PAPER V

FOUNDATION TO SURVEYING AND LEVELLING

CO1: Understand various land surveying techniques

CO2: Sketch a field plan during ground-based survey

CO3: Carry out survey based on principles and procedures

CO4: Estimate the area and relative height of field objects

CO5: Assess the pros and cons of various surveying techniques

CO6: Prepare tour report with critical analysis on field experience

GG 1661.1 : ENVIRONMENTAL GEOGRAPHY & DISASTER MANAGEMENT

CO1: Gains knowledge about concept, scope of Environmental Geography and components of environment

CO2: Develop an idea about human- environment relationships

CO3: Acquiring knowledge on environmental programme and policies

CO4: Understanding the definition, classification of Hazards and disasters

CO5: Acquires an idea about Disaster management cycle

MSc GEOGRAPHY

SEMESTER I

GO 511 : PRINCIPLES OF GEOMORPHOLOGY

Course Outcomes:

- Understanding the basic concepts of Geomorphology
- Analysing River basins on the basis of Morphometric Analysis
- Understands the linkages between river channel form and processes
- Critically evaluates landform evolution and slope development
- Acquires knowledge about influence of climate on landform development
- Apply Geomorphic knowledge in various fields

GO 512 : ADVANCED CLIMATOLOGY

Course Outcomes:

- Understanding the basic concepts of weather phenomena
- Analysing the atmospheric interactions responsible for weather systems
- Assessment of various types of climatic classifications
- Critically evaluates Climate change and its global impact
- Acquires knowledge about application of climatology on modern world

GO 513 A : HYDROLOGY AND OCEANOGRAPHY

Course Outcomes:

- Comprehend hydrologic concepts and understand the human impacts on hydrological cycle.

- Identify various forms of precipitation and effectively role of communicate evaporation process in global hydrological cycle and demonstrate skills in estimation of interception and soil moisture
- Develop skills to measure hydrological components like precipitation, evaporation, infiltration and run off
- Apply various scientific techniques in analysis and interpretation of hydrologic data
- Identify major water quality parameters and examine the factors affecting degradation of surface and groundwater systems
- Acquires knowledge on oceanic temperature, pressure, density and salinity etc., updates on marine sediments – source and types
- Comprehend statistical, analytical and numerical methods of modelling hydrologic flow and transport processes
- Apply quantitative models towards the analysis of water quantity, quality and management problems.

GO 514 : PRACTICAL PAPER – I

PHYSICAL GEOGRAPHY

Course Outcomes :

- Understand various methods of representing slopes, relief and illustration of profiles
- Acquires skills in delineation of drainage basin and identification of Thalweg
- Understand techniques of representing climatic data through Diagram and Graphs and determination of water balance
- Attains proficiency in calculating Water Balance using suitable methods
- Comprehend analytical methods for interpolation, estimation of precipitation Intensity

SEMESTER II

GO 521 : CONCEPTS AND TRENDS IN GEOGRAPHY

Course Outcomes:

- Understanding the chronological appraisal of Geographical Thought
- Analyses the various dimensions of Geographical Thoughts
- Evaluates recent developments in Geography
- Critically evaluates the Modern approaches and synthesis of Geography

GO 522 : THEORETICAL ECONOMIC GEOGRAPHY

Course Outcomes:

- Understanding the nature, scope and basic concepts of Economic Geography
- Critically evaluating and appreciation of Agricultural theories and indices
- Analyzing of Industrial locations through examination of various theories
- Understanding the functioning of Agglomeration economies
- Evaluating World Trade through critical appreciation of Trade Zones and Blocs

GO 523 A : REGIONAL GEOGRAPHY OF INDIA

Course Outcomes:

- Understanding the basis of regionalisation
- Appreciating the natural and human resources of the Northern Mountains
- Evaluating the physical and cultural resources of the Northern Plains
- Critical analysis of physical, human and economic resources of the Plateau region
- Acquiring in-depth understanding of Coastal India and Islands of India

GO 524 : PRACTICAL PAPER – II

QUANTITATIVE TECHNIQUES & SURVEYING

Course Outcomes:

- Acquiring knowledge regarding the transport network analysis
- Assimilating skills in preparing thematic maps and diagrams
- Congregates the techniques of advanced surveying
- Understanding the quantitative techniques in geography

SEMESTER III

GO 531 : GEOGRAPHY OF TOURISM

Course outcomes:

- Understand the concept, types and forms of tourism
- Identifies the motivators of tourism and tourist establishments
- Comprehending the benefits and impacts of tourism
- Able to understand the importance of passport and legalities involved in tourism
- Enhancing the knowledge about various tourist attractions in selected countries of the world, India and Kerala

GO 532 : PRINCIPLES OF REMOTE SENSING

Course Outcomes:

- Congregates knowledge about the process of remote sensing and energy interactions
- Develops the skills of aerial photo analysis and photogrammetric applications
- Understanding the resolutions of sensors and various satellite programmes for remote sensing data acquisition
- Developing the knowledge and skills in Digital image processing
- Assess the role of remote sensing technology in solving problems in the society

GO 533A : RESEARCH METHODOLOGY IN GEOGRAPHY

Course Outcomes :

- Comprehend the basic ideas and concepts salient to research processes and its role in scientific development
- Acquire an ability to formulate plan and outline for a research activity
- Identify and discuss the concepts and procedures of sampling, data collection and analysis
- Understand data sources and acquisition tools for research processes
- Formulate a research report incorporating ethical aspects of research

GO 534: PRACTICAL PAPER – III

REMOTE SENSING

Course Outcomes :

- Identify the different features from imageries based on visual interpretation keys
- Apply principles of Remote sensing to collect, map and retrieve spatial information
- Demonstrate higher level of professional skills to tackle multidisciplinary and complex problems related to Remote Sensing
- Process the remotely sensed with satellite image processing techniques
- Classify the processed remote sensing data and Evaluate the accuracy of image classification
- Apply the advanced processing methods for deriving the useful information

SEMESTER IV

GO 541 : ENVIRONMENTAL MANAGEMENT

Course Outcomes :

- Understand the scope and goals of environmental management
- Evaluate the status of disturbed ecosystems
- Understand the concept of restoration ecology
- Plan appropriate strategies for EIA and Environmental Auditing
- Apply various environmental management techniques to practical situations
- Appreciate the environmental policies and laws

GO 542 : URBAN AND REGIONAL PLANNING

Course Outcomes:

- Acquiring knowledge regarding the Classification of Towns by different scholars
- Congregating the awareness of theories on Urban Development
- Understanding the Urban problems and Morphology of towns
- Identifying various types of Regions and their structure
- Awareness regarding the levels of Planning in India

GO 543 A : GEOGRAPHIC INFORMATION SYSTEM

Course Outcomes:

- Acquiring knowledge about the process of GIS and its components
- Analyzing the Spatial Data Management tools and techniques in GIS
- Congregates the Web and Mobile based GIS application in problem solving
- Evaluating the natural and man-made systems using GIS models and methods

GO 544 : PRACTICAL PAPER – IV

GEOGRAPHIC INFORMATION SYSTEM

Course Outcomes:

- Acquiring skills to compile, analyse, and present Geospatial data
- Emphasizing the value of visual communication and basic Geospatial concepts
- Assimilation of industry standard GIS Technology in day-to-day applications