

2025-2026 FIRST YEAR

GEOGP101CC Credits: 6

PHYSICAL GEOGRAPHY

Introduction Of Physical Geography: Definition and Scope Brief
Introduction of Solar System,

July 1st Week

Origin of The Earth: Tidal hypothesis theory: Theory of Jeans and Jeffreys ,
Big Bang Theory: evolution, merits and demerits

July 2nd Week

Rocks: Classification and Their Characteristics, **Lithosphere:** Internal
Structure of Earth, Theory of Plate Tectonics

July 3rd Week

Weathering Definition, factors and types , Fluvial Cycle of Erosion – Davis,
stages, process and time

July 4th Week

Atmosphere: Structure and composition of atmosphere, Heat Balance,

August 1st Week

Pressure and wind systems, pressure belts, Classification of winds, sea
breeze, land breeze mountain breeze and valley breeze

August 2nd Week

Origin of Tropical Cyclones, characteristics of tropical cyclone

August 3rd Week

Monsoon: origin, theory of Monsoon

August 4th Week

Climatic Classification(Koppen)

September 1st Week

Hydrosphere: Hydrological Cycle, Bottom Relief Features of Oceans: Indian
ocean, Atlantic ocean and pacific ocean

September 2nd Week

Tides and Currents: Indian Ocean, Atlantic ocean and pacific ocean

September 3rd Week

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| Currents: Indian Ocean, Atlantic ocean and pacific ocean | September 4 th Week |
| GEOGP102CC GENERAL CARTOGRAPHY Credits: 6 | |
| Introduction Cartography as a Science of Communication; Basics of Map Reading | October 1 st Week |
| Map-Definition, Classification and Significance of Map | October 2 nd Week |
| Scale Definition: Importance and Types of Scale, merits demerits and construction methods Comparative and Diagonal Scale, merits demerits and construction methods Map projections Concept, Classification and Criteria for Choice of Projections; | October 4 th Week November 1 st Week November 2 nd Week |
| Attributes and Properties of: Cylindrical Equal Area, Mercator's Projection; Conical Projection with Two Standard Parallels | November 3 rd Week November 4 th Week |
| Zenithal Gnomonic & Stereographic (Polar Case); merits and demerits of projection Representation of Data Line Graph, Bar Diagrams, merits and demerits types of line graph and bar diagrams, simple line graphs, multiple line graph, simple bar diagram, multiple bar diagram | December 1 st Week December 2 nd Week February 2 nd Week |
| Climograph characteristics : Keen, Schorching, Muggy and Raw features of climograph and Hythergraph, | February 3 rd Week and |

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| Dot Method, Choropleth : Definition, merits and demerits and construction method of dot maps and Choropleth maps | February 4 th Week |
| Isopleth Methods: Definition, merits and demerits of Isopleth, construction method of isopleths maps | March 1 st Week |
| Isopleth Methods: Definition, merits and demerits of Isopleth, construction method of isopleths maps | March 2 nd Week |
| 2025-2026 SECOND YEAR GEOGP201CC Credits: 6 | |
| HUMAN GEOGRAPHY | |
| Introduction: Definition, Nature of human Geography, Major Sub fields of human Geography, relation of human Geography with other subjects | July 1 st Week |
| Contemporary Relevance of Human Geography, Space and Society Cultural Regions of the world | July 2 nd Week |
| Human Races: Classification (Griffith Taylor) and world distribution Major Religions of the world | July 3 rd Week |
| Distribution Major languages of the world and distribution; linguistic family, Dravidian, Eurasian, Chinese, English Sino -Tibetan, french, polish, Hindi | July 4 th Week |
| Population World Population Distribution, factors affecting the distribution of population | August 1 st Week |
| Density and Growth of world distribution, determinants affecting population growth, | August 2 nd Week |
| Demographic Transition Theory of population | August 3 rd Week |
| Settlements Types and Patterns of Rural Settlements | August 4 th Week |
| factors of the growth and development of rural settlement and size of rural settlement | September 1 st Week |
| Classification of Urban settlements: Characteristic, size, origin and basis of classification of cities | September 2 nd Week |

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| Trends and Patterns of World Urbanization: trends in urbanization in developed and developing countries | September 3 rd Week |
| Trends and Patterns of World Urbanization: trends in urbanization in developed and developing countries | September 4 th Week |
| GEOGP202CC | |
| ENVIRONMETAL GEOGRAPHY | Credits: 6 |
| Definition and Scope of Environmental Geography ; Meaning and Components of Environment | October 1 st Week |
| Ecosystem– Concept, components and Functions Food chain food web | October 2 nd Week |
| Human-Environment Relationship, Environmental determinism and Possibilism Biomes- Definition, Mountain and Desert Regions | October 4 th Week November 1 st Week November 2 nd Week |
| Environmental Problems Their Causes Impacts and Management | November 3 rd Week |
| Biodiversity loss hot spots cause of biodiversity loss | November 4 th Week |
| Biogeographic zones of India Major biogeographic zone of world Environmental pollutions: air pollution, land pollution, | December 1 st Week December 2 nd Week February 2 nd Week |
| water pollution and noise pollution and their effects and preventions Environmental Management Initiatives in India: Environmental Protection Act, 1982 | February 3 rd Week and February 4 th Week |

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| Environmental Policy of India(2006), Chipko Movement | March 1 st Week |
| Bishnoi movements | March 2 nd Week |
| <p>2025-2026</p> <p>SECOND YEAR GEOGP203SEC Credits: 4</p> <p>REGIONAL PLANNING AND DEVELOPMENT</p> | |
| INTRODUCTION Concept, Need and Types of regional Planning | July 1 st Week |
| Characteristics and Delineation of Planning Region | July 2 nd Week |
| Regionalization: concept, hill regions: case study of Himachal Pradesh | July 3 rd Week |
| Himachal Pradesh (Physical aspects) Himalyan range, peaks passes, major lakes and drainage system of Himachal Pradesh, soil and vegetation of the state | July 4 th Week |
| Himachal Pradesh (cultural aspects) : fairs, festivals, temples, custom and traditions | August 1 st Week |
| Models for Regional Planning: Growth Pole Theory | August 2 nd Week |
| Core Periphery Model Application of core and periphery model in India | August 3 rd Week |
| Regional Development Initiatives | August 4 th Week |
| The Success Story and the Failures of Integrated tribal development programme (ITDP) | September 1 st Week |
| Integrated Watershed Development programmes (IWDP: DDP, DPAP) | September 2 nd Week |
| Border area development programme (BADP) | September 3 rd Week |

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| Damodar Valley Corporation(DVC) | September 4 th Week |
| GEOGP204 SEC | |
| REMOTE SENSING AND GPS Credits: 4 | |
| Remote Sensing: Definition, Development, Historical perspective of remote sensing and history of India remote sensing | October 1 st Week |
| Platforms and Types of platforms : air based platforms, ground based platforms and space based platform | October 2 nd Week |
| Advantage and disadvantages of remote sensing and application of remote sensing | October 4 th Week |
| Aerial Photography: Principles, Types and Geometry | November 1 st Week |
| Oblique and vertical photography | November 2 nd Week |
| Satellite Remote Sensing: Principles, EMR Interaction with Atmosphere | November 3 rd Week |
| Satellite Remote Sensing: types, active remote sensing and passive remote sensing | November 4 th Week |
| EMR Interaction with Earth Surface; | December 1 st Week |
| Satellites (Landsat and IRS) and Sensors. | December 2 nd Week |
| Visual Interpretation of Remote Sensing images: Land use/ Land Cover, | February 2 nd Week |
| Thematic map making on GIS (PRACTICAL) | February 3 rd Week and February 4 th Week |
| Global Positioning System(GPS)–Principles and Uses | March 1 st Week & March 2 nd Week |

2025-2026 Third YEAR
GEOGP301SEC Credits: 4

GEOGRAPHIC INFORMATION SYSTEM

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| Introduction Meaning and Scope of GIS, Components of GIS, | July 1 st Week |
| History of Geographic Information System(GIS) | July 2 nd Week |
| Data Types GIS Data Structures: spatial data and non spatial data Advantages and disadvantages of GIS and Application of GIS | July 3 rd Week |
| Raster Data Structure merits and demerits types | July 4 th Week |
| Vector data structure merits and demerits types | August 1 st Week |
| Spatial referencing system Concept of Georeferencing, | August 2 nd Week |
| Editing and attribute data integration | August 3 rd Week |
| GIS based Exercises on Georeferencing, Subsetting | August 4 th Week |
| Extraction of Land Use/Land Cover layers of any area | September 1 st Week |
| Thematic mapping | September 2 nd Week |
| Map of density of Himachal pradesh | September 3 rd Week |
| Georeferencing, Subsetting (practical) | September 4 th Week |

GEOGP302SEC

FIELD TECHNIQUES & SURVEY BASED PROJECT REPORT (GEOGP 302SEC) Credits: 4

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| Introduction Field Work in Geographical Studies – Role, Value and Ethics of Field-Work | October 1 st Week |
| Defining the Field and Identifying the Case Study – Rural / Urban / Physical / Human / Environmental. | October 2 nd Week |
| Field Techniques Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant). Questionnaire and schedule merits demerits and characteristics | October 4 th Week November 1 st Week November 2 nd Week |
| Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch). | November 3 rd Week November 4 th Week |
| Designing the Field Report Aims and Objectives, Methodology Analysis, Interpretation and Writing the Report. Collection of data about the research problem by using the various techniques | December 1 st Week December 2 nd Week February 2 nd Week |
| Tabulation of data which was collected earlier | February 3 rd Week and February 4 th Week |
| Report writing : project based survey report writing | March 1 st Week March 2 nd Week |
| <p>2025-2026 SECOND YEAR GEOGP303 -1DSE Credits: 6</p> <p>GEOGRAPHY OF INDIA</p> | |
| Physical Setting | July 1 st Week |

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| Location, Major physiographic region of India | |
| Climate – Factors, Characteristics, Soils of India : Alluvial soil, red soils, black soils, laterite soils mountainous soils | July 2 nd Week July 3 rd Week |
| Population: Size and Growth since 1901 areas of high medium and low population growth | July 4 th Week |
| Population Distribution and Density: Factors, distribution in India Literacy, Sex Ratio : Determinants and distribution in India | August 1 st Week |
| Settlement System : Rural Settlement Types and Patterns, Settlements Types and Patterns of Rural Settlements | August 2 nd Week August 3 rd Week |
| factors of the growth and development of rural settlement and size of rural settlement Classification of Urban settlements: Characteristic, size, origin and basis of classification of cities | August 4 th Week September 1 st Week |
| Trends and Patterns of World Urbanization: trends of urbanization in India Resource Base Power (Coal and hydroelectricity), Minerals (iron ore and bauxite). | September 2 nd Week September 3 rd Week |
| Economy – Agriculture (Rice, Wheat) Industries(Cotton Textile, Iron-Steel) | September 4 th Week |

GEOGP304 -1 DSE

Disaster management

Credits: 6

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| Introduction | |
| Definition and Concepts.: Hazards, Risk, | October 1 st Week |
| Vulnerability and Disasters: type of vulnerability | October 2 nd Week |
| Classification of disasters and hazards and their causes | October 4 th Week |
| Disasters in India cause impact and distribution in India | November 1 st Week |
| Earthquake: Causes, Impact, Distribution | November 2 nd Week |
| Landslide,Causes, Impact, Distribution | November 3 rd Week |
| cyclone Causes, Impact, Distribution | November 4 th Week |
| Human Induced Disasters | December 1 st Week |
| Causes, Impact, Distribution: Forest Fire, | December 2 nd Week |
| road accident Causes, Impact, Distribution in India | February 2 nd Week |
| Response and Mitigation to Disasters: Mitigation and Preparedness, | February 3 rd Week and |
| NDMA and NIDM functional and establishment | February 4 th Week |
| Community Based Disaster Management | March 1 st Week |
| Do's and Don'ts During Disasters | March 2 nd Week |

2025-2026

GEOGP305 GE1 Credits: 6

DISASTER RISK REDUCTION

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| Introduction Definition and Concepts.: Hazards, Risk, | July 1 st Week |
| Vulnerability and Disasters: type of vulnerability | July 2 nd Week |
| Classification of disasters and hazards and their causes | July 3 rd Week |
| Disasters in India cause impact and distribution in India | July 4 th Week |
| Earthquake: Causes, Impact, Distribution | August 1 st Week |
| Floods Flash Floods: Causes, Impact, Distribution | August 2 nd Week |
| Cyclone Causes, Impact, Distribution | August 3 rd Week |
| Human Induced Disasters | August 4 th Week |
| Causes, Impact, Distribution: Forest Fire, | September 1 st Week |
| road accident Causes, Impact, Distribution in India | September 2 nd Week |
| Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM functional and establishment | September 3 rd Week |
| Community Based Disaster Management | September 4 th Week |
| Do's and Don'ts During Disasters | |

SUSTAINABILITY AND DEVELOPMENT (GEOGP 306-GE2)

Credits 6

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| Introduction | |
| Sustainability: Concept, Components | October 1 st Week |
| The Millennium Development Goals | October 2 nd Week |
| National Strategies and International Experiences | October 4 th Week |
| Sustainable Development: Need and its realization in Indian context | November 1 st Week November 2 nd Week |
| Historical background of sustainable development | |
| Inclusive Development: | November 3 rd Week and November 4 th Week |
| Education, Health | December 1 st Week |
| Role of higher education in achieving sustainability | December 2 nd Week |
| Policies and Global Cooperation for Climate Change | February 2 nd Week |
| Sustainable Development Policies and Programmes | February 3 rd Week and February 4 th Week |
| Rio+20, Financing for Sustainable Development | |
| National Environmental Policy | March 1 st Week & |
| National Environmental act | March 2 nd Week |