

# Department of Geography

RKMV, Shimla (2023-2024)

<b>FIRST YEAR</b> <b>GEOGP101CC Credits: 6</b>	
<b>PHYSICAL GEOGRAPHY</b>	
<b>Introduction Of Physical Geography</b> :Definition and Scope Brief Introduction of Solar System,	July 1 <sup>st</sup> Week
Origin of The Earth: Tidal hypothesis theory: Theory of Jeans and Jeffreys , Big Bang Theory: evolution, merits and demerits	July 2 <sup>nd</sup> Week
Rocks: Classification and Their Characteristics, <b>Lithosphere:</b> Internal Structure of Earth, Theory of Plate Tectonics	July 3 <sup>rd</sup> Week
Weathering Definition, factors and types , Fluvial Cycle of Erosion – Davis, stages, process and time	July 4 <sup>th</sup> Week
<b>Atmosphere:</b> Structure and composition of atmosphere, Heat Balance,	August 1 <sup>st</sup> Week
Pressure and wind systems, pressure belts, Classification of winds, sea breeze, land breeze mountain breeze and valley breeze	August 2 <sup>nd</sup> Week  August 3 <sup>rd</sup> Week
Origin of Tropical Cyclones, characteristics of tropical cyclone	
Monsoon: origin, theory of Monsoon	August 4 <sup>th</sup> Week
Climatic Classification(Koppen)	September 1 <sup>st</sup> Week

  
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<p><b>Hydrosphere:</b> Hydrological Cycle, Bottom Relief Features of Oceans: Indian ocean, Atlantic ocean and pacific ocean</p>	September 2 <sup>nd</sup> Week
<p>Tides and Currents: Indian Ocean, Atlantic ocean and pacific ocean</p>	September 3 <sup>rd</sup> Week
<p>Currents: Indian Ocean, Atlantic ocean and pacific ocean</p>	September 4 <sup>th</sup> Week
<p><b>GEOGP102CC</b></p> <p><b>GENERAL CARTOGRAPHY</b> <span style="float: right;"><b>Credits: 6</b></span></p>	
<p><b>Introduction</b> Cartography as a Science of Communication; Basics of Map Reading</p>	October 1 <sup>st</sup> Week
<p>Map-Definition, Classification and Significance of Map</p>	October 2 <sup>nd</sup> Week
<p><b>Scale</b> Definition: Importance and Types of Scale, merits demerits and construction methods</p> <p>Comparative and Diagonal Scale, merits demerits and construction methods</p>	October 4 <sup>th</sup> Week
<p><b>Map projections</b> Concept, Classification and Criteria for Choice of Projections;</p>	November 1 <sup>st</sup> Week November 2 <sup>nd</sup> Week
<p>Attributes and Properties of: Cylindrical Equal Area,  Mercator's Projection; Conical Projection with Two Standard Parallels</p>	November 3 <sup>rd</sup> Week November 4 <sup>th</sup> Week

  
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Zenithal Gnomonic & Stereographic (Polar Case); merits and demerits of projection	December 1 <sup>st</sup> Week
<b>Representation of Data</b> Line Graph, Bar Diagrams, merits and demerits	December 2 <sup>nd</sup> Week
types of line graph and bar diagrams, simple line graphs, multiple line graph, simple bar diagram, multiple bar diagram	February 2 <sup>nd</sup> Week
Climograph characteristics : Keen, Schorching, Muggy and Raw features of climograph and Hythergraph,	February 3 <sup>rd</sup> Week
Dot Method, Choropleth : Definition, merits and demerits and construction method of dot maps and Choropleth maps	February 4 <sup>th</sup> Week
Isopleth Methods: Definition, merits and demerits of Isopleth, construction method of isopleths maps	March 1 <sup>st</sup> Week
Isopleth Methods: Definition, merits and demerits of Isopleth, construction method of isopleths maps	March 2 <sup>nd</sup> Week
<p><b>SECOND YEAR</b>  <b>GEOGP201CC Credits: 6</b></p> <p><b>HUMAN GEOGRAPHY</b></p>	
Introduction: Definition, Nature of human Geography, Major Sub fields of human Geography, relation of human Geography with other subjects	July 1 <sup>st</sup> Week
Contemporary Relevance of Human Geography, Space and Society Cultural Regions of the world	July 2 <sup>nd</sup> Week
Human Races: Classification (Griffith Taylor) and world distribution Major Religions of the world	July 3 <sup>rd</sup> Week

  
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Distribution Major languages of the world and distribution; linguistic family, Dravidian, Eurasian, Chinese, English Sino -Tibetan, french, polish, Hindi	July 4 <sup>th</sup> Week
Population World Population Distribution, factors affecting the distribution of population	August 1 <sup>st</sup> Week
Density and Growth of world distribution, determinants affecting population growth,  Demographic Transition Theory of population	August 2 <sup>nd</sup> Week  August 3 <sup>rd</sup> Week
Settlements Types and Patterns of Rural Settlements  factors of the growth and development of rural settlement and size of rural settlement	August 4 <sup>th</sup> Week  September 1 <sup>st</sup> Week
Classification of Urban settlements: Characteristic, size, origin and basis of classification of cities  Trends and Patterns of World Urbanization: trends in urbanization in developed and developing countries	September 2 <sup>nd</sup> Week  September 3 <sup>rd</sup> Week
Trends and Patterns of World Urbanization: trends in urbanization in developed and developing countries	September 4 <sup>th</sup> Week
<b>GEOGP202CC</b>	
<b>ENVIRONMENTAL GEOGRAPHY</b>	
<b>Credits: 6</b>	
Definition and Scope of Environmental Geography ; Meaning and Components of Environment	October 1 <sup>st</sup> Week
Ecosystem– Concept, components and Functions Food chain food web	October 2 <sup>nd</sup> Week
Human-Environment Relationship,	October 4 <sup>th</sup> Week
Environmental determinism and Possibilism	November 1 <sup>st</sup> Week

  
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Biomes- Definition, Mountain and Desert Regions	November 2 <sup>nd</sup> Week
Environmental Problems Their Causes Impacts and Management	November 3 <sup>rd</sup> Week
Biodiversity loss hot spots cause of biodiversity loss	November 4 <sup>th</sup> Week
Biogeographic zones of India	December 1 <sup>st</sup> Week
Major biogeographic zone of world	December 2 <sup>nd</sup> Week
Environmental pollutions: air pollution, land pollution,	February 2 <sup>nd</sup> Week
water pollution and noise pollution and their effects and preventions	February 3 <sup>rd</sup> Week and February 4 <sup>th</sup> Week
Environmental Management Initiatives in India: Environmental Protection Act, 1982	
Environmental Policy of India(2006), Chipko Movement	March 1 <sup>st</sup> Week
Bishnoi movements	March 2 <sup>nd</sup> Week
<b>SECOND YEAR</b> <b>GEOGP203SEC Credits: 4</b>  <b>REGIONAL PLANNING AND DEVELOPMENT</b>	
<b>INTRODUCTION</b> Concept, Need and Types of regional Planning	July 1 <sup>st</sup> Week
Characteristics and Delineation of Planning Region	July 2 <sup>nd</sup> Week
Regionalization: concept, hill regions: case study of Himachal Pradesh	July 3 <sup>rd</sup> Week

  
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Himachal Pradesh (Physical aspects) Himalyan range, peaks passes, major lakes and drainage system of Himachal Pradesh, soil and vegetation of the state	July 4 <sup>th</sup> Week
Himachal Pradesh (cultural aspects) : fairs, festivals, temples, custom and traditions	August 1 <sup>st</sup> Week
Models for Regional Planning: Growth Pole Theory	August 2 <sup>nd</sup> Week
Core Periphery Model Application of core and periphery model in India	August 3 <sup>rd</sup> Week
Regional Development Initiatives	August 4 <sup>th</sup> Week
The Success Story and the Failures of Integrated tribal development programme (ITDP)	September 1 <sup>st</sup> Week
Integrated Watershed Development programmes (IWDP: DDP, DPAP)	September 2 <sup>nd</sup> Week
Border area development programme (BADP)	September 3 <sup>rd</sup> Week
Damodar Valley Corporation(DVC)	September 4 <sup>th</sup> Week
<b>GEOGP204 SEC</b>	
<b>REMOTE SENSING AND GPS</b>	
<b>Credits: 4</b>	
Remote Sensing: Definition, Development, Historical perspective of remote sensing and history of India remote sensing	October 1 <sup>st</sup> Week
Platforms and Types of platforms : air based platforms, ground based platforms and space based platform	October 2 <sup>nd</sup> Week
Advantage and disadvantages of remote sensing and application of remote sensing	October 4 <sup>th</sup> Week
Aerial Photography: Principles, Types and Geometry	November 1 <sup>st</sup> Week

  
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Oblique and vertical photography	November 2 <sup>nd</sup> Week
Satellite Remote Sensing: Principles, EMR Interaction with Atmosphere	November 3 <sup>rd</sup> Week
Satellite Remote Sensing: types, active remote sensing and passive remote sensing	November 4 <sup>th</sup> Week
EMR Interaction with Earth Surface;  Satellites (Landsat and IRS) and Sensors.  Visual Interpretation of Remote Sensing images: Land use/ Land Cover,	December 1 <sup>st</sup> Week  December 2 <sup>nd</sup> Week  February 2 <sup>nd</sup> Week
Thematic map making on GIS (PRACTICAL)	February 3 <sup>rd</sup> Week and  February 4 <sup>th</sup> Week
Global Positioning System(GPS)–Principles and Uses	March 1 <sup>st</sup> Week &  March 2 <sup>nd</sup> Week
<b>Third YEAR</b>	
<b>GEOGP301SEC</b>	<b>Credits: 4</b>
<b>GEOGRAPHIC INFORMATION SYSTEM</b>	
Introduction Meaning and Scope of GIS, Components of GIS,	July 1 <sup>st</sup> Week
History of Geographic Information System(GIS)	July 2 <sup>nd</sup> Week
Data Types GIS Data Structures: spatial data and non spatial data Advantages and disadvantages of GIS and Application of GIS	July 3 <sup>rd</sup> Week

  
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Raster Data Structure merits and demerits types	July 4 <sup>th</sup> Week
Vector data structure merits and demerits types	August 1 <sup>st</sup> Week
Spatial referencing system Concept of Georeferencing, Editing and attribute data integration	August 2 <sup>nd</sup> Week August 3 <sup>rd</sup> Week
GIS based Exercises on Georeferencing, Subsetting Extraction of Land Use/Land Cover layers of any area	August 4 <sup>th</sup> Week September 1 <sup>st</sup> Week
Thematic mapping Map of density of Himachal pradesh	September 2 <sup>nd</sup> Week September 3 <sup>rd</sup> Week
Georeferencing, Subsetting (practical)	September 4 <sup>th</sup> Week

## GEOGP302SEC

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

Introduction Field Work in Geographical Studies – Role, Value and Ethics of Field-Work	October 1 <sup>st</sup> Week
Defining the Field and Identifying the Case Study – Rural / Urban / Physical / Human / Environmental.	October 2 <sup>nd</sup> Week
Field Techniques Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant). Questionnaire and schedule merits demerits and characteristics	October 4 <sup>th</sup> Week November 1 <sup>st</sup> Week November 2 <sup>nd</sup> Week
Questionnaires (Open/ Closed / Structured / Non-Structured); Interview	November 3 <sup>rd</sup> Week

  
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with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch).	November 4 <sup>th</sup> 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 <sup>st</sup> Week  December 2 <sup>nd</sup> Week  February 2 <sup>nd</sup> Week
Tabulation of data which was collected earlier	February 3 <sup>rd</sup> Week and  February 4 <sup>th</sup> Week
Report writing : project based survey report writing	March 1 <sup>st</sup> Week  March 2 <sup>nd</sup> Week
<b>SECOND YEAR</b> <b>GEOGP203 -1DSE Credits: 6</b>  <b>GEOGRAPHY OF INDIA</b>	
<b>Physical Setting</b>  Location, Major physiographic region of India	July 1 <sup>st</sup> Week
Climate – Factors, Characteristics,  Soils of India : Alluvial soil, red soils, black soils, laterite soils mountainous soils	July 2 <sup>nd</sup> Week  July 3 <sup>rd</sup> Week

  
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<p><b>Population</b></p> <p>Size and Growth since 1901 areas of high medium and low population growth</p>	<p>July 4<sup>th</sup> Week</p>
<p>Population Distribution and Density: Factors, distribution in India Literacy, Sex Ratio : Determinants and distribution in India</p>	<p>August 1<sup>st</sup> Week</p>
<p><b>Settlement System</b> : Rural Settlement Types and Patterns,  Settlements Types and Patterns of Rural Settlements</p>	<p>August 2<sup>nd</sup> Week  August 3<sup>rd</sup> Week</p>
<p>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</p>	<p>August 4<sup>th</sup> Week  September 1<sup>st</sup> Week</p>
<p>Trends and Patterns of World Urbanization: trends of urbanization in India  <b>Resource Base</b> Power (Coal and hydroelectricity), Minerals (iron ore and bauxite).</p>	<p>September 2<sup>nd</sup> Week  September 3<sup>rd</sup> Week</p>
<p>Economy – Agriculture (Rice, Wheat)  Industries(Cotton Textile, Iron-Steel)</p>	<p>September 4<sup>th</sup> Week</p>
<p><b>GEOGP304 -1 DSE</b></p>	

  
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<b>Disaster management</b>		<b>Credits: 6</b>
<b>Introduction</b>		
Definition and Concepts.: Hazards, Risk,		October 1 <sup>st</sup> Week
Vulnerability and Disasters: type of vulnerability		October 2 <sup>nd</sup> Week
Classification of disasters and hazards and their causes		October 4 <sup>th</sup> Week
Disasters in India cause impact and distribution in India		November 1 <sup>st</sup> Week
Earthquake: Causes, Impact, Distribution		November 2 <sup>nd</sup> Week
Landslide,Causes, Impact, Distribution		November 3 <sup>rd</sup> Week
cyclone Causes, Impact, Distribution		November 4 <sup>th</sup> Week
Human Induced Disasters		December 1 <sup>st</sup> Week
Causes, Impact, Distribution: Forest Fire,		December 2 <sup>nd</sup> Week
road accident Causes, Impact, Distribution in India		February 2 <sup>nd</sup> Week
Response and Mitigation to Disasters: Mitigation and Preparedness,		February 3 <sup>rd</sup> Week and
NDMA and NIDM functional and establishment		February 4 <sup>th</sup> Week
Community Based Disaster Management		March 1 <sup>st</sup> Week
Do's and Don'ts During Disasters		March 2 <sup>nd</sup> Week
<b>GEOGP305 GE1 Credits: 6</b>		

  
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<b>DISASTER RISK REDUCTION</b>	
<b>Introduction</b> Definition and Concepts.: Hazards, Risk,	July 1 <sup>st</sup> Week
Vulnerability and Disasters: type of vulnerability	July 2 <sup>nd</sup> Week
Classification of disasters and hazards and their causes	July 3 <sup>rd</sup> Week
Disasters in India cause impact and distribution in India	July 4 <sup>th</sup> Week
Earthquake: Causes, Impact, Distribution	August 1 <sup>st</sup> Week
Floods Flash Floods: Causes, Impact, Distribution	August 2 <sup>nd</sup> Week
Cyclone Causes, Impact, Distribution	August 3 <sup>rd</sup> Week
Human Induced Disasters	August 4 <sup>th</sup> Week
Causes, Impact, Distribution: Forest Fire,	September 1 <sup>st</sup> Week
road accident Causes, Impact, Distribution in India	September 2 <sup>nd</sup> Week
Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM functional and establishment	September 3 <sup>rd</sup> Week
Community Based Disaster Management	September 4 <sup>th</sup> Week
Do's and Don'ts During Disasters	
<b>SUSTAINABILITY AND DEVELOPMENT (GEOGP 306-GE2)</b>	
<b>Credits 6</b>	
<b>Introduction</b>	

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

  
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