Department of Geography

RKMV, Shimla (2023-2024)

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 Rocks: Classification and Their Characteristics**, Lithosphere:** Internal Structure of Earth, Theory of Plate Tectonics	July 2nd Week 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 Origin of Tropical Cyclones, characteristics of tropical cyclone	August 2nd Week August 3rd Week
Monsoon: origin, theory of Monsoon Climatic Classification(Koppen)	August 4th Week September 1st Week
Hydrosphere: Hydrological Cycle, Bottom Relief Features of Oceans: Indian ocean, Atlantic ocean and pacific ocean Tides and Currents: Indian Ocean, Atlantic ocean and pacific ocean	September 2nd Week September 3rd Week
Currents: Indian Ocean, Atlantic ocean and pacific ocean	September 4th Week
GEOGP102CC **GENERAL CARTOGRAPHY** **Credits: 6**	

Introduction Cartography as a Science of Communication; Basics of Map Reading	October 1st Week
Map-Definition, Classification and Significance of Map	October 2nd Week
S**cale** 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 4th Week November 1st Week November 2nd Week
Attributes and Properties of: Cylindrical Equal Area, Mercator's Projection; Conical Projection with Two Standard Parallels	November 3rd Week November 4th 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 1st Week December 2nd Week February 2nd Week
Climograph characteristics : Keen, Schorching, Muggy and Raw features of climograph and Hythergraph, Dot Method, Choropleth : Definition, merits and demerits and construction method of dot maps and Choropleth maps	February 3rd Week and February 4th Week
Isopleth Methods: Definition, merits and demerits of Isopleth, construction method of isopleths maps Isopleth Methods: Definition, merits and demerits of Isopleth, construction method of isopleths maps	March 1st Week March 2nd Week
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 1st Week
Contemporary Relevance of Human Geography, Space and Society Cultural Regions of the world Human Races: Classification (Griffith Taylor) and world distribution Major Religions of the world	July 2nd Week July 3rd Week

Distribution Major languages of the world and distribution; linguistic family, Dravidian, Eurasian, Chinese, English Sino -Tibetan, French, polish, Hindi	July 4th Week
Population World Population Distribution, factors affecting the distribution of population	August 1st Week
Density and Growth of world distribution, determinants affecting population growth, Demographic Transition Theory of population	August 2nd Week August 3rd Week
Settlements Types and Patterns of Rural Settlements factors of the growth and development of rural settlement and size of rural settlement	August 4th Week September 1st 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 2nd Week September 3rd Week
Trends and Patterns of World Urbanization: trends in urbanization in developed and developing countries	September 4th Week
GEOGP202CC **ENVIRONMETAL GEOGRAPHY** **Credits: 6**	
Definition and Scope of Environmental Geography ; Meaning and Components of Environment	October 1st Week
Ecosystem– Concept, components and Functions Food chain food web	October 2nd Week
Human-Environment Relationship, Environmental determinism and Possibilism Biomes- Definition, Mountain and Desert Regions	October 4th Week November 1st Week November 2nd Week
Environmental Problems Their Causes Impacts and Management Biodiversity loss hot spots cause of biodiversity loss	November 3rd Week November 4th Week
Biogeographic zones of India Major biogeographic zone of world Environmental pollutions: air pollution, land pollution,	December 1st Week December 2nd Week February 2nd Week

water pollution and noise pollution and their effects and preventions Environmental Management Initiatives in India: Environmental Protection Act, 1982	February 3rd Week and February 4th Week
Environmental Policy of India(2006), Chipko Movement Bishnoi movements	March 1st Week March 2nd Week
SECOND YEAR **GEOGP203SEC Credits: 4** **REGIONAL PLANNING AND DEVELOPMENT**	
INTRODUCTION Concept, Need and Types of regional Planning	July 1st Week
Characteristics and Delineation of Planning Region Regionalization: concept, hill regions: case study of Himachal Pradesh	July 2nd Week July 3rd Week
Himachal Pradesh (Physical aspects) Himalyan range, peaks passes, major lakes and drainage system of Himachal Pradesh, soil and vegetation of the state	July 4th Week
Himachal Pradesh (cultural aspects) : fairs, festivals, temples, custom and traditions	August 1st Week
Models for Regional Planning: Growth Pole Theory Core Periphery Model Application of core and periphery model in India	August 2nd Week August 3rd Week
Regional Development Initiatives The Success Story and the Failures of Integrated tribal development programme (ITDP)	August 4th Week September 1st Week
Integrated Watershed Development programmes (IWDP: DDP, DPAP) Border area development programme (BADP)	September 2nd Week September 3rd Week
Damodar Valley Corporation(DVC)	September 4th 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 1st Week
Platforms and Types of platforms : air based platforms, ground based platforms and space based platform	October 2nd Week

Advantage and disadvantages of remote sensing and application of remote sensing Aerial Photography: Principles, Types and Geometry Oblique and vertical photography	October 4th Week November 1st Week November 2nd Week
Satellite Remote Sensing: Principles, EMR Interaction with Atmosphere Satellite Remote Sensing: types, active remote sensing and passive remote sensing	November 3rd Week November 4th Week
EMR Interaction with Earth Surface; Satellites (Landsat and IRS) and Sensors. Visual Interpretation of Remote Sensing images: Land use/ Land Cover,	December 1st Week December 2nd Week February 2nd Week
Thematic map making on GIS (PRACTICAL)	February 3rd Week and 4th Week
Global Positioning System(GPS)–Principles and Uses	March 1st Week &2nd Week
Third YEAR **GEOGP301SEC Credits: 4** **GEOGRAPHIC INFORMATION SYSTEM**	
Introduction Meaning and Scope of GIS, Components of GIS,	July 1st Week
History of Geographic Information System(GIS) Data Types GIS Data Structures: spatial data and non spatial dataAdvantages and disadvantages of GIS and Application of GIS	July 2nd Week July 3rd Week
Raster Data Structure merits and demerits types	July 4th Week
Vector data structure merits and demerits types	August 1st Week
Spatial referencing system Concept of Georeferencing, Editing and attribute data integration	August 2nd Week August 3rd Week
GIS based Exercises on Georeferencing, Subsetting Extraction of Land Use/Land Cover layers of any area	August 4th Week September 1st Week
Thematic mapping	September 2nd Week September 3rd Week

Map of density of Himachal pradesh	
Georeferencing, Subsetting (practical)	September 4th 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 1st Week
Defining the Field and Identifying the Case Study – Rural / Urban / Physical / Human / Environmental.	October 2nd Week
Field Techniques Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant). Questionnaire and schedule merits demerits and characteristics	October 4th Week November 1st Week November 2nd Week
Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch).	November 3rd Week November 4th 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 1st Week December 2nd Week February 2nd Week
Tabulation of data which was collected earlier	February 3rd Week and February 4th Week
Report writing : project based survey report writing	March 1st Week March 2nd Week

THIRD YEAR **GEOGP203 -1DSE Credits: 6** **GEOGRAPHY OF INDIA**	
Physical Setting Location, Major physiographic region of India	July 1st Week
Climate – Factors, Characteristics, Soils of India : Alluvial soil, red soils, black soils, laterite soils mountainous soils	July 2nd Week July 3rd Week
Population Size and Growth since 1901 areas of high medium and low population growth	July 4th Week
Population Distribution and Density: Factors, distribution in India Literacy, Sex Ratio : Determinants and distribution in India	August 1st Week
Settlement System : Rural Settlement Types and Patterns, Settlements Types and Patterns of Rural Settlements	August 2nd Week August 3rd 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 4th Week September 1st Week
Trends and Patterns of World Urbanization: trends of urbanization in India **Resource Base** Power (Coal and hydroelectricity), Minerals (iron ore and	September 2nd Week September 3rd Week

bauxite).	
Economy – Agriculture (Rice, Wheat) Industries(Cotton Textile, Iron-Steel)	September 4th Week
GEOGP304 -1 DSE **Disaster management** **Credits: 6**	
Introduction Definition and Concepts.: Hazards, Risk,	October 1st Week
Vulnerability and Disasters: type of vulnerability	October 2nd Week
Classification of disasters and hazards and their causes Disasters in India cause impact and distribution in India Earthquake: Causes, Impact, Distribution	October 4th Week November 1st Week November 2nd Week
Landslide,Causes, Impact, Distribution cyclone Causes, Impact, Distribution	November 3rd Week November 4th Week
Human Induced Disasters Causes, Impact, Distribution: Forest Fire, road accident Causes, Impact, Distribution in India	December 1st Week December 2nd Week February 2nd Week
Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM functional and establishment	February 3rd Week and February 4th Week

Community Based Disaster Management Do's and Don'ts During Disasters	March 1st Week March 2nd Week
GEOGP305 GE1 Credits: 6 **DISASTER RISK REDUCTION**	
Introduction Definition and Concepts.: Hazards, Risk,	July 1st Week
Vulnerability and Disasters: type of vulnerability Classification of disasters and hazards and their causes	July 2nd Week July 3rd Week
Disasters in India cause impact and distribution in India	July 4th Week
Earthquake: Causes, Impact, Distribution	August 1st Week
Floods Flash Floods: Causes, Impact, Distribution Cyclone Causes, Impact, Distribution	August 2nd Week August 3rd Week
Human Induced Disasters Causes, Impact, Distribution: Forest Fire,	August 4th Week September 1st Week
Road accident Causes, Impact, Distribution in India Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM functional and establishment	September 2nd Week September 3rd Week
Community Based Disaster Management Do's and Don'ts During Disasters	September 4th Week
SUSTAINABILITY AND DEVELOPMENT (GEOGP 306-GE2) **Credits 6**	
Introduction Sustainability: Concept, Components	October 1st Week

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