

Sri Adichunchanagiri First Grade College Channarayapattana

DEPARTMENT OF GEOGRAPHY LESSON PLAN 2022-23

ECONOMIC GEOGRAPHY Semester – V CBCS 2022-23

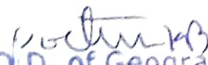


PARVATHAMMA .P.B.
CHETHAN .D.S.

Chapters	Allocation of topics	Month	No of Hours
I	Definition field ,importance and approaches of economic geography	Nov	15
II	resources –concept ,characteristics ,types conservation and management	Dec	15
III	Agriculture major crops rice wheat cotton sugar cane coffee tea Animal husbandry dairy farming regions fishing areas aqua culture	Jan	15
IV	Industrial location factors Webbers theory , Losch theory , industrial regions of the world International trade – patterns trends	Jan\feb	15

PRACTICAL – V Semester – V CBCS

Chapters	Allocation of topics	Month	No of Hours
I	Importance of topographical maps – types	Nov	10
II	Conventional sings	Dec	10
III	Marginal information of toposheets	Dec	10
IV	Interpretation of the toposheet Physical and cultural land scape	Jan	10
V	Conventional symbols of weather maps	Jan	10
VI	Interpretation of Indian daily weather reports .	Feb	10


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INTRODUCTION TO PHYSICAL GEPGRAPHY
Semester – V GENERIC ELECTIVE CBCS
2022-23

Chapters	Allocation of topics	Month	No of Hours
I	Geography division – physical geography , field and scope , solar system , movements of the earth , rocks and their types	Nov	8
II	Weathering and denudation – elements and factors	Dec	8
III	Atmospheric weather and climate ; temperature and pressure , wind and their types	Jan	8
IV	Hydrosphere – ocean currents – temperature and salinity , islands	Feb	8

REGIONAL GEOGRAPHY OF KARNATAKA
Semester – VI CBCS
2022-23

Chapters	Allocation of topics	Month	No of Hours
I	Physical setting – Location ,size and extent Relief features ,climate and soil. Rivers – water resources potential and utilization		12
II	Irrigation – types – Major river valley projects ,Krishna and Cauvery river basins .Agriculture – types and agricultural regions , dairying		12
III	Minerals and industries – silk , sugar , software		12
IV	Human resources – growth and distribution, sex ratio , urbanization trends and patterns		12
V	Transportation – roads and railways,ports and harbors		12

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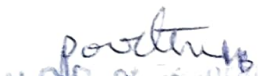
PRACTICAL – VI
Semester – VI CBCS
2022-23

Chapters	Allocation of topics	Month	No of Hours
I	Surveying – meaning - importance		5
II	Plane table surveying		10
III	Prismatic compass surveying		10
IV	Chain surveying		10
V	Geographical information system a) meaning components of GIS b) Spatial data entities – point , line , polygon. c) Sources of spatial data – census , topographical maps , aerial photographs , satellite images		10
VI	Spatial data structure and management		5
VII	Creating maps – digitization – creating data base , creating thematic maps furniture's		10

REGIONAL GEOGRAPHY OF INDIA
Semester – VI GENERIC ELECTIVE CBCS
2022-23

Chapters	Allocation of topics	Month	No of Hours
I	Location Size and extent , physiographic division . Climate and seasons , mechanism of monsoons , rivers		8
II	Human resources – growth , distribution , and density Composition – literacy , sex ratio		8
III	Economy – agriculture – major crops – mineral resources – coal , petroleum , electricity .		8
IV	Industries – industrial regions – iron and steel , cotton , fertilizers , cements		8


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**B.A. / B.Sc. (Geography) Degree (Basic / Honours) Scheme & Syllabus -
NEP-2022-23 Second Year**


Title of the Course: Fundamentals of Human Geography CODE: DSC

T 3.1

Chapters	Allocation of topics	Month	No of Hours
I	1.1 Nature and scope, Development and Branches of Human Geography, 1.2 Themes in Geography: Location, Place, Human-Environment Interaction, Movement and Region, 1.3 Man-Environment Relation: Environmental Determinism and Possibilism, NeoDeterminism (stop and go determinism) 1.4 Approaches to Human geography: Exploration and Descriptive Approach, Regional Approach, Areal Differentiation Approach, Spatial organization Approach. Modern Approaches: Welfare or Humanistic Approach, Radical Approach, Behavioral Approach, Post Modernism in geography	NOV	14
II	2.1 Concept of culture, Material and Non-material Culture, Cultural traits and Cultural regions. 2.2 Meaning and Definition of races, Classification of races, Main characteristics (traits) and Broad racial groups of the world and their distribution. 2.3 Languages: Classification and Distribution of languages. 2.4 Religion: Types, Classification, and Distribution of religions: Hinduism, Christianity, Islam and Buddhism. Assignment: Each student is expected to prepare a brief report on the cultural composition of their own locality/ place/ village/ ward/town or neighborhoods through field investigation and also can use published data.	DEC	14
III	3.1 Distribution and Growth of Population; Factors affecting population Distribution. 3.2 Density of Population: Meaning and Types; Arithmetic Density, Physiological Density and Agricultural density, Regional Distribution of Density of Population; Carrying capacity and Sustainability, 3.3 Concept of Settlements, Origin and evolution of Human settlements, Factors of settlements, origin and distribution, types and pattern of settlements, 3.4 Rural and Urban settlements, Trends and Patterns of World Urbanization. Field Activity: Students should study and identify the factors influencing on the origin and growth of the settlement and each student is expected to identify patterns of settlements by visiting nearest settlement. The students are advised to carry topographical map of the place during field visit.	JAN	14
IV	4.1 Concept and Classification of Economic activities; Factors affecting Economic Activities. 4.2 Primary Economic Activities – Agriculture, Types: Primitive Subsistence, Intensive Subsistence, Plantation Agriculture, Extensive Commercial grain Cultivation, Mixed Farming, Dairy Farming. 4.3 Secondary Activities:	FEB	14

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<p>Manufacturing, Classification – 1. Based on size – Small Scale and Large scale. 2. Based on Raw Material – Agro-based, Mineral based, Chemical Based and Forest based. Industrial Regions of the world. 4.4 Tertiary Activities: Types: Trade and Commerce, Retail Trading Services, Wholesale Trading. Transport and communications: Factors, Communication Services – Telecommunication. Services: Informal and Non formal sector. Information technology and service. Case Study: Students have to visit a village/a town nearby and observe the economic activities and understand different classes and identify the most dominant economic activities..</p>	
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B.A./ B.Sc. honors Programme Semester III

Title of the Course: Fundamental Techniques in Human Geography, CODE: DSC P 3.1

Exercise 1	Maps: Definition, Elements of map: scale, direction, map projection, conventional signs and symbols, legend, Types of map: 1. Based on scale: A. large scale: cadastral maps, Topographic maps, B. Small scale: wall maps, atlas maps, maps 2. Based on purpose and content: Physical Maps, Political Maps, Thematic Maps. Uses of Maps.	NOV	8
Exercise 2	Map Scales: Definition of Scale, Methods of representing Scales: Statement Method, Graphical Method, Ratio Method (R F).	DEC	8
Exercise 3	Conversion of Scale: Verbal to RF, RF to Verbal, Verbal to Graphical. Exercises on Measuring Distances on Map and converting map distance to ground distance	DEC	8
Exercise 4&5	Map Projections: Meaning and Purpose, Latitudes and Longitudes, Classification of Map Projections and their general properties: Conical Projections, Cylindrical Projections, Zenithal Projections. UTM Projections. Choice of Map Projection.	JAN	8
Exercise 6	Drawing of conical projection with One Std. Parallel and Two Std. Parallels	JAN	8

B.A. /B.Sc. Honors Programme III Semester (Open Elective)

Title of the Paper: Geography of India Code:OE3.1

Chapters	Allocation of topics	Month	No of Hours
I	1.1 Location, Size and Extent, Political Divisions 1.2 Relief Features-Northern Mountains, Northern Great Plain, The Peninsular Plateau and Coastal Plain and Islands 1.3 Climate: Seasons – Summer Season, South-West Monsoon, Retreating Monsoon Season, Winter Season, 1.4 Drainage system- Rivers of	NOV	12

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	North India, Rivers of South India, 1.5 Vegetation - Types and Distribution- Afforestation programs		
II	2.1 Irrigation- Need for Irrigation and Types 2.2 Agriculture: Significance and Types- Intensive and Extensive Farming, Subsistence and Mixed Farming 2.3 Major Crops- Production and Distribution Rice, Wheat Cotton, Sugar cane and Tea 2.4 Development of Agriculture- Green Revolution	DEC	10
III	3.1 Mineral and Power Resources-Types and Significance 3.2 Production and Distribution: Iron Ore, Manganese 3.3 Production and Distribution: Coal, Petroleum, Hydro Electricity 3.4 Major industries- Iron and Steel, Cotton textile, Sugar. 3.5 Major industrial regions of India 3.6 Special Economic Zones	JAN	10
IV	4.1 Roadways, Railways, Airways Waterways. 4.2 Important Ports: Calcutta, Chennai, Mumbai and New Mangalore. 4.3 Indian Space Programme. 4.4 Growth of Population 4.5 Distribution and Density of Population 4.6 Population Composition – Sex Ratio, Literacy 4.7 Problems of Population	FEB	10

B.A./B.Sc. honors programme Semester IV

Title of the Course: India- Resources and Sustainability CODE: DSC 4.1

Chapters	Allocation of topics	Month	No of Hours
I	1.1 Location, Size and Extent. Major Physiographic Regions - Northern Mountains, Northern Great Plains, Peninsular Plateau and Coastal Plains and Islands) and their Characteristics; 1.2 Climate: Seasonal Weather Characteristics, Climatic Zones. Mechanism and Characteristics of Indian Monsoons. 1.3 Tropical Cyclones and Western Disturbances. 1.4 Floods and Droughts 1.5 Drainage System 1.6 Soil: Types, Erosion and Conservation. 1.7 Vegetation: Types, Distribution, Afforestation programs, National Parks, Wildlife Sanctuaries, and Biosphere reserves.	JUN	14
II	2.1 Water resources of India, Surface and Groundwater, Water Demand and Utilization. 2.2 Irrigation: Sources, Types and Intensity. Issues and Challenges: Water Resources Scarcity, Water Conservation and Management. 2.3 Watershed Management, Rainwater Harvesting, Recycle and Reuse of water. Interlinking of Rivers, 2.4 National Water Policies, National Water Mission, Jalashakti Abhiyaan. Command Area Development and Water Management. Central Water Commission and Water Tribunal and their role. 2.5 Agriculture: Land Use and Cropping Pattern – Meaning and Concepts, Land Use and Cropping Patten in India, Agro-climatic Regions, Green Revolution – Causes and Effects, Hunger Index and Malnutrition, Food security and right to food to	JUN/JUL	14

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	achieve Zero hunger and Good Health and Wellbeing..		
III	3.1 Locational factors of industries, Major Industrial Regions and their characteristics, 3.2 Classification of Industries: Agro-based, Mineral-based, Forest-based and Animal-based industries. 3.3 Special Economic Zones: Industrial / Economic Corridor. 3.4 Transport & Communication: Significance, Growth and Development – Road ways, Railways, Waterways, Airways and Pipeline Networks and their Complementary and Competition. 3.5 Communication: Means of Communication and their Significance 3.6 Assignment: Selecting a region students have to study the locational factors nearby industry and prepare a report.	JUL	14
IV	4.1 Growth, Distribution and Density of Population. 4.2 Composition of Population: Age, Sex, Rural-Urban Population Composition. 4.3 Migration: Meaning, Factors, Types, Causes and Consequences. 4.4 Human Development in India: Measures, Levels of Development based on HDI 4.5 Field Study: Selecting a region / district students have to examine the levels of Human Development using HDI and prepare a report.	JUL/AUG	14

B.A./B.Sc. honors Programme Semester IV

Title of the Course: Representation of Indian Geographical features and Resources.

Code: DSC P-4.1

Ex.No.1	Mapping exercises on Indian outline Map: International Boundaries, Mountain peaks, Passes, Glaciers and important Physical Divisions of India, Rivers, National Biospheres and National Parks, Dams and Reservoirs, Lakes and Water Bodies, Islands, National Waterways, Ports and Harbours, National High ways, Important Airports, Industrial Corridors, Important Coastal Zones and Beaches, Ecologically Sensitive areas, Important industrial zones, Special Economic Zones, Resource centres and Mining, Cultural Regions, Tribal Areas. Note: Each student is expected to complete at least 3 mapping exercises from the above topics which should cover brief description on: Location (Latitude and longitude, state, district, place,) geographic/environmental/ ecological/ political/ economic significance of the place/ location. Minimum 10 locations shall be involved in each	JUN	10
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Ex.No.2&3	exercise. Mapping Temperature and Rainfall Distribution of India / Karnataka using Isopleth method.	JUL	10
Ex.No.4&5	Mapping of Agro-climatic zones of India, Flood Prone and Drought Prone Areas,	JUL	10
Ex.No.6&7	Mapping of Cropping Pattern and Crop intensity of India/ Karnataka. Weaver's Method, Bhatia's Method. Calculation and mapping of Irrigation intensity.	JUL	10
Ex.No.8	Human Development Index: Concept, Calculation and Mapping	AGU	6
Ex.No.9	Gender Development Index: Concept, Calculation and Mapping	AGU	6
Ex.No.10	Human Poverty Index: Concept and Calculation and Mapping	AGU	6

B.A/B.Sc Semester 1

Title of the Course: Principles of Geomorphology

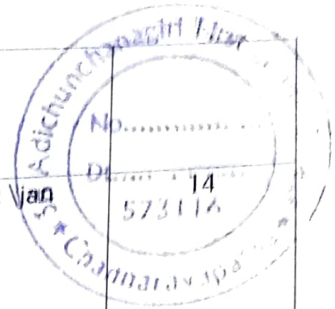
Code: GEOGDSC T1.1

Chapters	Allocation of topics	Month	No of Hours
I	Introduction to geography: physical and human geography Introduction to Geomorphology: meaning, nature, development, and scope Principles of Geomorphology Geological Time Scale Distribution of continents and oceans	Sep\oct	14
II	Internal structure of the earth Alfred Wegener's continental drift Theory of Isostasy: Views of Pratt and Airy Convectional current theory and concept of sea floor spreading Theory of Plate Tectonics: plate boundaries, subduction, Case Studies: Volcano, Earthquake: reporting of latest incidents Case Studies: Volcano, Earthquake: reporting of latest incidents	Oct	14
III	Earth's Movements: Endogenetic and Exogenetic forces, Sudden and Diastrophic movements- Epeirogenetic and Orogenetic Movements-Process of folding and faulting Vulcanicity and earthquake	Nov	14

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	Rocks: Characteristics, types, importance, and rock cycle Weathering: meaning, types and controlling factors Mass Movement: meaning, controlling factors, types-landslides, rock-falls		
IV	Evolution of Landforms Landforms: meaning, types and factors controlling landforms development Slope development: concept and types Concept of Cycle of Erosion-W.M. Davis and W. Penck Agents of Denudation: river; drainage patterns, groundwater, Sea waves, Wind and Glaciers and resultant landforms. Application of geomorphology: in India and Karnataka (Regional planning, Urban planning and transportation, Mining, Hazard management, Agriculture and Environmental management).	Dec \ Jan	14 573116



GEOGDSC P1.1 Geomorphology Practical

Content of Practical Course 1: List of Experiments to be conducted

Exercise-1: Identification of Rocks and Minerals. Mineral samples: Iron ore, Bauxite ore and Manganese. Rock Samples: Granite, Basalt, Lime Stones, Sandstone, quartzite, and marble.	Oct \ Nov	10
Exercise-2: Extraction and interpretation of Geomorphologic information from Topographical maps	Nov	10
Exercise-3: Preparation of contour map from toposheet, Construction of Relief Profiles-serial, Super imposed, Projected & Composite.	Nov	10
Exercise-4: Slope Analysis - Slope Maps (Wentworth method) Slope calculation and conversion (isotan and isosin) and aspect maps & Hypsometric curve and integral	Dec	10
Exercise-5: Drainage Morphometry: delineation of watershed, stream ordering and Morphometric analysis: mean stream length, drainage density and drainage frequency.	Dec \ Jan	8

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B.A. / BSc Semester 1

Title of the Course: GEOG0E T1.1 - 1.Introduction to Physical Geography

Chapters	Allocation of topics	Month	No of Hours
I	Origin, Shape and Size of the Earth, Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth,Coordinates -Latitude, Longitude and Time. Structure of the Earth,		
II	Rocks - types,significance, Weathering – types. Agents of Denudation - River, Glacier, Wind and Under Ground water. Volcanicity, Earthquakes and Tsunamis	Dec	11
III	Structure and Composition of Atmosphere, Weather and Climate. Atmospheric Temperature, Heat Budget of the atmosphere Atmospheric Pressure, Winds and Precipitation	Dec Jan	11
IV	Distribution of Land and Sea, Submarine Relief of the Ocean, Temperature and Salinity of Sea Water. Ocean Tides, Waves and Deposits, Ocean currents - Atlantic, Pacific and Indian Oceans. Marine Resources: Biotic, mineral and energy resources	Jan Feb	12

B.A. / BSc Semester 2

Title of the Course: Introduction to Climatology

CODE: GEOGDSC T2.1

Chapters	Allocation of topics	Month	No of Hours
I	Nature and Scope of Climatology, Atmospheric Sciences; Climatology and Meteorology Origin and structure of the Atmosphere: Troposphere, Stratosphere, Mesosphere, Ionosphere, Exosphere and their characteristics. Composition of the atmosphere Weather and Climate	JUN	14
II	Insolation: Definition, Mechanism, Solar Constant. Factors affecting the Insolation: Angle of incidence, length of the day, Sunspots,Distance between the earth and the sun, effect of the atmosphere. Heating and cooling process of the atmosphere-Radiation, Conduction,convection, and advection. Temperature: meaning and Influencing Factors on the Distribution of Temperature Distribution of the temperature: Vertical, Horizontal, and Inversion of temperature. Global Energy Budget: Incoming shortwave solar radiation, Outgoing Longwave	JUL	14

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	Terrestrial radiation, Albedo, Net Radiation and Latitudinal Heat Balances.		
III	Atmospheric Pressure: Influencing factors on atmospheric pressure. Vertical and Horizontal Distribution of the atmospheric pressure and Pressure Belts. Pressure Gradient. Tri-cellular-Hadley, Ferrel's and Polar Cells. Winds: influencing factors, Types - planetary, seasonal, local wind. Variable winds-Cyclones and anti-cyclones. Air-Masses and Fronts: Definition, Nature, Source Regions, Classification.	JUL	
IV	Humidity: Sources, influencing factors and types-Absolute, Relative and Specific. Hydrological cycle: process of evaporation, condensation. Clouds and its types. Precipitation and its forms. Climate Change: Causes and consequences, recent issues-floods, drought.	JUL	14

GEOGDSC P2.1- Climatology Practical CREDITS: 2

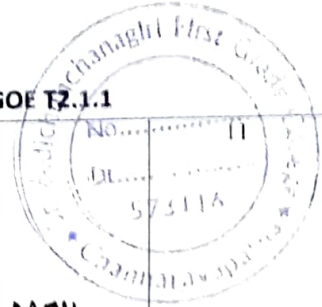
Exercise 1: Understanding Structure and functions of the Indian Meteorological Department (IMD). Exercise 2: Collection of climatic data from IMD website. https://mausam.imd.gov.in/bengaluru/	MAY	
Exercise 3: Plotting of downloaded climatic data using graphical methods-	MAY	
Exercise 4: Centigrade and Fahrenheit thermometer for measuring temperature.		
Exercise 5: Mercurial Barometer and Aneroid Barometer for measuring atmospheric pressure	JUN	
Exercise 6: Wind Vane and cup-anemometer.		
Exercise 7: Wet and Dry bulb thermometer for measuring humidity		
Exercise 8: Rain gauge- Dial type for measuring rainfall Exercise 3: Rainfall Trend Analysis.	JUN	
Exercise 9: Interpretation of Indian Daily Weather charts.		
Exercise 10: Deriving water balance chart, Actual and potential evapotranspiration	JUN/JUL	


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Title of the Course: 1 Introduction to Human Geography

CODE: GEOG01TZ.1.1



I	<p>Nature and scope, Development Environmental Determinism and Possiblism, Neo determinism (stop and godeterminism) Approaches to human geography: Exploration and Descriptive approach, regionalanalysis Approach, Areal Differentiation Approach, Spatial organization Approach.Modern approaches: Welfare or Humanistic Approach, Radical Approach, Behavioral Approach, Post Modernism in geography Fields and sub fields in Human geography</p>	MAY	11
II	<p>Distribution and Growth of Population Density of population: meaning and Types: Arithmetic Density and PhysiologicalDensity. Regional distribution of Density of Population. Population Movement: Migration, Raventein's Law of Migration, Factors of population Migration, Economic Push and Pull factors, Cultural Push and Pull Factors, Environmental Push and Pull Factors. Migration Types: Immigration and Emigration, Internal and International Migration</p>	JUN	11
III	<p>Concept of Culture, Material and Non material culture Cultural Regions, cultural Traits and Complexes, cultural Hearths, cultural Diffusion. Languages of the World: Types, Classification and Distribution. Religions: Types and Classification. Distribution. Universalizing Religions: Christianity, Islam, Buddhism. Ethnic Religions: Hinduism, the Chinese religion, Shinto's, Judaism. The Major tribal population of the world.</p>	JUL	11
IV	<p>Primary Economic Activities – Agriculture, Types: Primitive Subsistence, Intensive subsistence, Plantation Agriculture, Extensive Commercial grain cultivation, MixedFarming, Dairy Farming Secondary Activities: Manufacturing, classification – based on size – Small Scale and Large scale. Based on Raw material – Argo-based, Mineral based,Chemical Based and Forest based. Industrial Regions of the world. Tertiary Activities: Types: Trade and commerce, Retail Trading services, Wholesaletrading. Transport and communications: Factors, communication services – Telecommunication. Services: Informal and Non formal sector. Information technology and service. Human Settlements: Factors, Classification, Types and Patterns: Rural, Urban. Compact or Nucleated and Dispersed settlements. Rural settlement Patterns: linear,rectangular, circular, star shaped, T shaped.</p>	JUL	12

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