**Govt.P.G.College,Safidon(Jind)-126112**

**Session:2023-2024 (Even Semester)**

**Lesson Plan**

**Name of Teacher:..Sh.Sandeep Subject:...Human Geography Class…B.A.II Year (IV Semester)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | **Nature and Scope of Human Geography .** |
| **2** | **2nd** | **01 Feb – 07 Feb** | **Branches of Human Geography approaches of the study of Human Geography.** |
| **3** | **3rd** | **08 Feb – 15 Feb** | **Division of Mankind :Spatial distribution of race and tribes of india.** |
| **4** | **4th** | **16 Feb – 23 Feb** | **Concept of men-environment relation:A historical approach.** |
| **5** | **5th** | **24 Feb – 02March** | **Human adaptayion to the environment (i)Cold region-Eskimo (ii)Hot region –Bushman.** |
| **6** | **6th** | **04March-9March** | **(iii)Plateau-Gonds (iv)Mountains-Gujjars.** |
| **7** | **7th** | **11March-16March** | **Meaning,nature and components of resources;Classification of resourses-renewal.** |
| **8** | **8th** | **18March-22March** | **Non-renewable; biotic and abiotic,recycalable.** |
| **9** | **9th** | **23March-27March** | **Distribution,utilization and conservation of biotic (flora and fauna)and abiotic (water,minerand energy)resources** |
| **10** | **10th** | **28March-03April** | **Distribution and density of world population, population growth,fertility and mortality patterns.** |
| **11** | **11th** | **04April-10April** | **Concept of over,under optimum population;Population theories:Malthus,Ricardo and Marx.** |
| **12** | **12th** | **15April-22April** | **Rural settlements:Meaning,classification and types.Urban settlements:Origin,classification and funcation of towns.** |
| **13** | **13th** | **23April-30April** | **Population pressure,resource use and environment degradation;sustainable development.** |
| **14** | **14th** | **01May-06 May** | **Concept of deforestation,soil erosion,air and water pollution.** |
| **15** | **15th** | **07May-13May** | **Revision** |
| **Name of Teacher:..Sh.Balvinder Subject:..GIS and RS Class…B.A.III Year (VI Semester)**   |  |  |  |  | | --- | --- | --- | --- | | **Sr.No.** | **Week** | **Date** | Topic | | **1** | **1st** | **24 Jan– 31 Jan** | Introduction to Aerial Photographs :Their Advantages and Typs. | | **2** | **2nd** | **01 Feb – 07 Feb** | Elements of Aerial Photo Interpretation. | | **3** | **3rd** | **08 Feb – 15 Feb** | Basic of Remote Sensing. | | **4** | **4th** | **16 Feb – 23 Feb** | Electromagnetic Spectrum,Sensors and Plateform,Resolution. | | **5** | **5th** | **24 Feb – 02Mar** | Development of Remote Sensing Technology . | | **6** | **6th** | **04Mar-9Mar** | Types of Imageries and its use in Natural Resources Management India. | | **7** | **7th** | **11Mar-16Mar** | Measure of Center Tendency(Mean) | | **8** | **8th** | **18Mar-22Mar** | Mean ,Median . | | **9** | **9th** | **23Mar-27Mar** | Mode and Measure of Dispersion. | | **10** | **10th** | **28Mar-03April** | Range,Quartite Deviation Mean Devition. | | **11** | **11th** | **04April-10April** | Standerd Deviation. | | **12** | **12th** | **15April-22April** | Co-Efficient of Variation. | | **13** | **13th** | **23April-30April** | Introduction to Geographical Information System. | | **14** | **14th** | **01May-06 May** | Definition,Purpose,Advantages and Software and Hardware Requirements. | | **15** | **15th** | **07May-13May** | Application of GIS in Various fields of Geography. | | | | |

**Name of Teacher:..Mrs.Nisha Subject..Urban Geography Class:..M.Sc (IV Semster)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Urban Geography: definition, nature, scope, different approaches and urban settlement concept (town, cities, and metropolitan) |
| **2** | **2nd** | **01 Feb – 07 Feb** | Origin and growth of urban places, factors and stages of urban growth and change. |
| **3** | **3rd** | **08 Feb – 15 Feb** | Urbanization: definition, concept, trends and pattern of urbanization in the world with special reference of India. |
| **4** | **4th** | **16 Feb – 23 Feb** | Aspects of Urban space: urban morphology: concentric zone model, sector model, multiple nuclei model and Social area analysis, |
| **5** | **5th** | **24 Feb – 02March** | City Region Relations- Sphere of influence or umland and Urban Sprawl. |
| **6** | **6th** | **04March-9March** | Rural Urban Fringe: structural characteristics and its development. |
| **7** | **7th** | **11March-16March** | Urban Economic base of cities: basic and non-basic functions |
| **8** | **8th** | **18March-22March** | Functional classification of towns: by C. D Harris and H.J Nelson and Ashok Mitra. |
| **9** | **9th** | **23March-27March** | Central place theory of Christaller and  Losch. Rank Size rule and Law of Primate City concept. |
| **10** | **10th** | **28March-03April** | Contemporary Urban issues and challenges: Slums |
| **11** | **11th** | **04April-10April** | Contemporary Urban issues and challenges Crime, renewal, Environmental Pollution. |
| **12** | **12th** | **15April-22April** | Urban development Policies and programs in India. |
| **13** | **13th** | **23April-30April** | Urban development Policies and programs in India. |
| **14** | **14th** | **01May-06May** | The concept of sustainable development of cities. |
| **15** | **15th** | **07May-13May** | The concept of sustainable development of cities. |

**Name of Teacher:…Sh.Sandeep Subject..Hydrology And Oceanography Class:..M.Sc (IV Semster)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Hydrology: Definition, nature, scope and development of Hydrology. |
| **2** | **2nd** | **01 Feb – 07 Feb** | Hydrological cycle. Estimation of global water budget. |
| **3** | **3rd** | **08 Feb – 15 Feb** | Impact of anthropogenic activities on hydrological cycle. Rainfall: |
| **4** | **4th** | **16 Feb – 23 Feb** | Measurement of rainfall, determination of average rainfall (Arithmetic mean, Isohytel method and Theisson polygon), |
| **5** | **5th** | **24 Feb – 02March** | world distribution of rainfall. |
| **6** | **6th** | **04March-9March** | Groundwater hydrology: Darcy's law and elementary groundwater flow equation |
| **7** | **7th** | **11March-16March** | geological formations of aquifer, types of aquifer and properties. |
| **8** | **8th** | **18March-22March** | Sources and measurement of stream flow, hydrograph and its components, analysis of hydrograph, factors affecting the hydrograph shape, methods of hydrograph separation. |
| **9** | **9th** | **23March-27March** | Oceanography: introduction, nature, scope and relation with other sciences. |
| **10** | **10th** | **28March-03April** | Corals-origin, types and conditions for development, theories of the origin of coral reefs (Subsidence and standstill). |
| **11** | **11th** | **04April-10April** | Tides: types, causes and theories explaining the origin of tides. |
| **12** | **12th** | **15April-22April** | Oceanic temperature: distribution and causes of variation; |
| **13** | **13th** | **23April-30April** | Oceanic movement: Waves, Stream and Currents; Currents of Atlantic, |
| **14** | **14th** | **01May-06 May** | Global warming and sea level changes. |
| **15** | **15th** | **07May-13May** | Global warming and sea level changes. |

**Name of Teacher:…Dr. Hariom Class:..M.Sc (IV Semster) Subject..Fundamentals of Geographical Systems**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | GIS: Definition and scope; Development of GIS, Computer requirements of GIS. Functions of GIS. |
| **2** | **2nd** | **01 Feb – 07 Feb** | Components of GIS: Hardware, Software, User, Organizational context and Methods and Procedures. |
| **3** | **3rd** | **08 Feb – 15 Feb** | Graphic user interface of Are GIS and Q-GIS. |
| **4** | **4th** | **16 Feb – 23 Feb** | Geographic Data: Spatial and Non-Spatial, their sources. Spatial Data Structure: Raster andVector; |
| **5** | **5th** | **24 Feb – 02March** | Non spatial data: file system and DBMS. Definition and need of coordinate projection system: types, |
| **6** | **6th** | **04March-9March** | characteristics and relevance of projection system. Understanding spheroid/ellipsoids, understanding datum. |
| **7** | **7th** | **11March-16March** | characteristics and relevance of projection system. Understanding spheroid/ellipsoids, understanding datum. |
| **8** | **8th** | **18March-22March** | Data input in GIS: scanning and digitization of maps and images, Errors in GIS, editing and cleaning |
| **9** | **9th** | **23March-27March** | Spatial Analysis in GIS: Overlay, Neighborhood and Proximity; |
| **10** | **10th** | **28March-03April** | Integration of raster and vector data. Queries in GIS: Spatial and Non-spatial queries. |
| **11** | **11th** | **04April-10April** | Understanding GPS; GPS satellite constellation; space segment-control segment and user segment; |
| **12** | **12th** | **15April-22April** | GPS signals and codes; Errors in GPS observations; I |
| **13** | **13th** | **23April-30April** | Introduction to DGPS; GPR. GPS system: NAVSTAR, GALILIO and IRNSS. |
| **14** | **14th** | **01May-06 May** | Applications of GPS |
| **15** | **15th** | **07May-13May** | Applications of GPS |

**Name of Teacher:…Sh.Sandeep Subject..Geography of Haryana Class:..M.Sc (IV Semster)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Geographical location and agro-ecological regions of Haryana |
| **2** | **2nd** | **01 Feb – 07 Feb** | Geographical location and agro-ecological regions of Haryana |
| **3** | **3rd** | **08 Feb – 15 Feb** | Geology Structure and Relief, Drainage System, |
| **4** | **4th** | **16 Feb – 23 Feb** | Climatic characteristics of Haryana. |
| **5** | **5th** | **24 Feb – 02March** | Agriculture in Haryana: Major Irrigation Projects, |
| **6** | **6th** | **04March-9March** | Spatial Distribution and Development of Horticulture and Farming. |
| **7** | **7th** | **11March-16March** | Green Revolution |
| **8** | **8th** | **18March-22March** | Green Revolution and its Socio-Economic and Ecological Implications |
| **9** | **9th** | **23March-27March** | Industrial development in Haryana: Location and distribution of agro-based industries |
| **10** | **10th** | **28March-03April** | Automobile Industries, cotton and IT industries. |
| **11** | **11th** | **04April-10April** | Transportation: major transportation networks |
| **12** | **12th** | **15April-22April** | Transportation: major transportation networks |
| **13** | **13th** | **23April-30April** | impacts of transportation development on regional development. |
| **14** | **14th** | **01May-06 May** | Demographic Characteristics of Haryana: Population Growth, Density, |
| **15** | **15th** | **07May-13May** | Age and Sex Composition, Literacy. |

**Name of Teacher:…Sh.Balvinder Subject….Geomorphology Class:..M.Sc (II Semster)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Introduction to geomorphology as a science: definition, nature, scope and recent developments. |
| **2** | **2nd** | **01 Feb – 07 Feb** | Fundamental concepts: Geological structure and landforms, Uniformitarianism, |
| **3** | **3rd** | **08 Feb – 15 Feb** | Multi-cycle and polygenetic evolution of landscape, |
| **4** | **4th** | **16 Feb – 23 Feb** | Frequency concept of geomorphic processes, Peneplain and Pediplain. |
| **5** | **5th** | **24 Feb – 02March** | Origin of Continents and Oceans: Tetrahedral hypotheses, |
| **6** | **6th** | **04March-9March** | Continental drift theory, Sea floor. |
| **7** | **7th** | **11March-16March** | spreading, Plate tectonics: Concept, plate motion and cycle, major tectonic activities along plate boundaries. |
| **8** | **8th** | **18March-22March** | Hill Slope: elements, classification and theories of its development-parallel retreat and slope replacement model. |
| **9** | **9th** | **23March-27March** | Impacts of climatic conditions on: Types and classification of weathering and mass movement |
| **10** | **10th** | **28March-03April** | Impacts of climatic conditions on: Types and classification of weathering and mass movement |
| **11** | **11th** | **04April-10April** | Dynamics of fluvial, glacial, peri-glacial and aeolian processes and resultant landforms. |
| **12** | **12th** | **15April-22April** | Applied geomorphology: Meaning and concept, role of geomorphology in environmental management |
| **13** | **13th** | **23April-30April** | Accelerated erosion and sedimentation |
| **14** | **14th** | **01May-06 May** | Construction of large dams |
| **15** | **15th** | **07May-13May** | Urban floods and Geomorphology |

**Name of Teacher:…Dr.Hariom Subject..Biogeography Class:..M.Sc (II Semster)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Nature and scope of biogeography. |
| **2** | **2nd** | **01 Feb – 07 Feb** | Development of biogeography as branch of physical geography. |
| **3** | **3rd** | **08 Feb – 15 Feb** | Biological classification of flora and fauna. |
| **4** | **4th** | **16 Feb – 23 Feb** | Evolutionary biogeography: origin of species, process and types of speciation, , |
| **5** | **5th** | **24 Feb – 02March** | diversity and extinction of spices, adaptation and natural selection |
| **6** | **6th** | **04March-9March** | The Theory of Territorial Evolution in animals. |
| **7** | **7th** | **11March-16March** | Ecological biogeography: structure |
| **8** | **8th** | **18March-22March** | selection of habitat, concept of niche. |
| **9** | **9th** | **23March-27March** | Distribution of plant life on the earth and its relation to soil, climate, topography. |
| **10** | **10th** | **28March-03April** | Distribution of plant life on the earth and its relation to soil, climate, topography. |
| **11** | **11th** | **04April-10April** | Geographical distribution of animal life on the earth and its relation to climate and topography |
| **12** | **12th** | **15April-22April** | . Biodiversity: elements and types of biodiversity, biodiversity hotspots. |
| **13** | **13th** | **23April-30April** | Biodiversity: its relation with climate change, conservation, protected areas, biosphere reserve |
| **14** | **14th** | **01May-06 May** | Zoning of biosphere reserve, tiger reserve and project elephant in India. |
| **15** | **15th** | **07May-13May** | National forest and wild life policy of India. |

**Name of Teacher:…Mrs.Nisha Subject..Geographical Thought Class:..M.Sc (II Semster)**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Classification of knowledge, Nature of geography and its place among sciences. |
| **2** | **2nd** | **01 Feb – 07 Feb** | Geographic knowledge during ancient (Greek and Roman) and medieval (Arab) periods. |
| **3** | **3rd** | **08 Feb – 15 Feb** | Contribution of Ancient Indian scholars in geographical development. Foundation of Modern Geography: contributions of Varenius, |
| **4** | **4th** | **16 Feb – 23 Feb** | Kant, Humboldt and Ritter. |
| **5** | **5th** | **24 Feb – 02March** | Geography as a study of: Physical features, chorology, landscape science. |
| **6** | **6th** | **04March-9March** | Concepts in Geography: Environmental determinism, Possibilism |
| **7** | **7th** | **11March-16March** | Neo-determinism, Probabilism, aerial differentiation. |
| **8** | **8th** | **18March-22March** | Dualism in geography: Physical vs Human geography, systematic vs regional geography. |
| **9** | **9th** | **23March-27March** | Quantitative Revolution: Emergence of geography as spatial science. |
| **10** | **10th** | **28March-03April** | Positivist Explanations in Geography: Laws, theories, hypotheses, models. |
| **11** | **11th** | **04April-10April** | Positivist Explanations in Geography: Laws, theories, hypotheses, models. |
| **12** | **12th** | **15April-22April** | Scientific explanations: routes to scientific explanations (Inductive and Deductive approach), cause and effect analysis. |
| **13** | **13th** | **23April-30April** | Modern approaches in geography: Behavioral and Humanistic Perspectives in Geography, |
| **14** | **14th** | **01May-06 May** | Welfare approach, Radical approach, Structuralism and |
| **15** | **15th** | **07May-13May** | Postmodernism. |

**Name of Teacher:….Sh.Sandeep Class:..M.Sc (II Semster)**

**Subject:..Disaster Management And Geography**

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| **Sr.No.** | **Week** | **Date** | Topic |
| **1** | **1st** | **24 Jan– 31 Jan** | Disasters and Hazards: Definition, nature and classification. |
| **2** | **2nd** | **01 Feb – 07 Feb** | Geography and disasters: major disasters of world,; |
| **3** | **3rd** | **08 Feb – 15 Feb** | Geography and disasters: major disasters of world,; |
| **4** | **4th** | **16 Feb – 23 Feb** | disaster profile of India |
| **5** | **5th** | **24 Feb – 02March** | Tectonic Disasters: Volcanoes, Earthquakes, Tsunamis, Landslides. |
| **6** | **6th** | **04March-9March** | Hydrological Disasters: Floods and Droughts; Climatic Disasters: Cyclones and Heavy Precipitation events. |
| **7** | **7th** | **11March-16March** | Human Induced Disasters: Epidemics, Industrial and Transport Disasters. |
| **8** | **8th** | **18March-22March** | Disaster Management in India: Policy and Organizational Structure setup. |
| **9** | **9th** | **23March-27March** | Disaster Management in India: Policy and Organizational Structure setup. |
| **10** | **10th** | **28March-03April** | Disaster Vulnerability and Ailecting Factors. |
| **11** | **11th** | **04April-10April** | Planning for Disaster Mitigation Measures and Preparedness. |
| **12** | **12th** | **15April-22April** | Post Disaster Recovery and Rehabilitation. |
| **13** | **13th** | **23April-30April** | Impacts of Disaster on Society and Economy Remote Sensing. |
| **14** | **14th** | **01May-06 May** | GIS Applications in Disaster Prevention and Monitoring. |
| **15** | **15th** | **07May-13May** | GIS Applications in Disaster Prevention and Monitoring. |