

LessonPlan

Teacher Name- Anup Singh

Class- M.sc <sup>4th</sup> sem

SUBJECT - GIS

SESSION 2024-25

| SR. NO. | WEEK | TOPICS TO BE COVERED   | ASSIGNMENTS, PRESENTATIONS AND TESTS |
|---------|------|--|--------------------------------------|
| 1       | 1    | GIS: concept, definition and development.  |                                      |
| 2       | 2    | Hardware and software requirements for GIS environment                           |                                      |
| 3       | 3    | Data for GIS (i) Spatial data and their sources                                  | CLASS TEST                           |
| 4       | 4    | (ii) Non-spatial data and their sources; (iii) data structure: vector and raster |                                      |
| 5       | 5    | Data Base Management System; Sources of errors in GIS database.                  |                                      |
| 6       | 6    | Map, scale and map projection: Need of projection,                               | CLASS TEST                           |
| 7       | 7    | Spherical co-ordinate system and properties.                                     |                                      |
| 8       | 8    | Integration of Remote Sensing data into GIS                                      | PRESENTATIONS /ASSIGNMENTS           |
| 9       | 9    | Application of GIS in resource mapping, urban management and real time mapping   |                                      |
| 10      | 10   | Current issues in GIS.   | PRESENTATIONS /ASSIGNMENTS           |
| 11      | 11   | REVISION AND DOUBT CLEARENCE   |                                      |
| 12      | 12   | REVISION AND DOUBT CLEARENCE   | FINAL TEST                           |
| 13      | 13   | REVISION AND DOUBT CLEARENCE   |                                      |
| 14      | 14   | REVISION AND DOUBT CLEARENCE   |                                      |

Lesson Plan  
Teacher Name- Anup Singh

Class- Msc 2<sup>nd</sup> year

SUBJECT – GIS Practical

SESSION 2024-25

| SR. NO. | WEEK | TOPICS TO BE COVERED   | ASSIGNMENTS, PRESENTATIONS AND TESTS |
|---------|------|--|--------------------------------------|
| 1       | 1    | Georeferencing   | Practice                             |
| 2       | 2    | Creation of Geo-data base and shape file.  | Practice                             |
| 3       | 3    | On screen digitization vectorisation of spatial data in the form of layers polygon             | Practice                             |
| 4       | 4    | On screen digitization vectorisation of spatial data in the form of layers poly line and point | Practice                             |
| 5       | 5    | Adding attributes to these layers and statistical calculations.                                | Practice                             |
| 6       | 6    | Displaying attribute data on map by various methods.   | Practice                             |
| 7       | 7    | Displaying attribute data on map by various methods.   | Practice                             |
| 8       | 8    | Preparing layout and printing of theme map.  | Practice<br>/ASSIGNMENTS             |
| 9       | 9    | REVISION AND DOUBT CLEARENCE   |                                      |
| 10      | 10   | Practice   | Practice<br>/ASSIGNMENTS             |
| 11      | 11   | REVISION AND DOUBT CLEARENCE   |                                      |
| 12      | 12   | REVISION AND DOUBT CLEARENCE   | FINAL TEST                           |
| 13      | 13   | REVISION AND DOUBT CLEARENCE   |                                      |
| 14      | 14   | REVISION AND DOUBT CLEARENCE   |                                      |

Lesson Plan  
Teacher Name-Anup Singh

Class- M Sc 2<sup>nd</sup> year

SUBJECT-HYDROLOGY AND OCEANOGRAPHY

SESSION 2024-25

| SR. NO. | WEEK | TOPICS TO BE COVERED  | ASSIGNMENTS, PRESENTATIONS AND TESTS |
|---------|------|---|--------------------------------------|
| 1       | 1    | Definition, nature, scope and historical development of hydrology. Relationship of hydrology with other physical sciences.  |                                      |
| 2       | 2    | Hydrological cycle, estimation of global water budget, human impact on hydrological cycle   |                                      |
| 3       | 3    | Rainfall frequency, intensity and measurement, accuracy of rainfall measurement   | CLASS TEST                           |
| 4       | 4    | determination of average rainfall (Arithmetic mean, Thiessen polygon, isohyet methods), variations in rainfall and world distribution.  |                                      |
| 5       | 5    | Sources and measurement of stream flow, hydrograph and its components, analysis of hydrograph, factors affecting the hydrograph shape, methods of hydrograph separation, variations in runoff, rainfall-runoff relationship |                                      |
| 6       | 6    | Major topographic features of ocean basins, bottom relief of Atlantic, Pacific and Indian oceans  | CLASS TEST                           |
| 7       | 7    | Sources, classification and distribution of ocean deposits, corals-origin, types and conditions for development. Theories of the origin of coral reefs (Subsidence and standstill)  |                                      |
| 8       | 8    | Origin, causes, types and effects of the ocean currents, currents of the Atlantic, Pacific and Indian oceans  | PRESENTATIONS /ASSIGNMENTS           |
| 9       | 9    | Composition of oceanic water and distribution of salinity   |                                      |
| 10      | 10   | Oceanic temperature: distribution and causes of variation   | PRESENTATIONS /ASSIGNMENTS           |
| 11      | 11   | REVISION AND DOUBT CLEARANCE  |                                      |
| 12      | 12   | REVISION AND DOUBT CLEARANCE  | FINAL TEST                           |
| 13      | 13   | REVISION AND DOUBT CLEARANCE  |                                      |
| 14      | 14   | REVISION AND DOUBT CLEARANCE  |                                      |

Lesson Plan  
Teacher Name-Anup Singh

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Class- BA 4th sem

**SUBJECT – Human Geography**

SESSION 2024-25

| SR. NO. | WEEK | TOPICS TO BE COVERED   | ASSIGNMENTS, PRESENTATIONS AND TESTS |
|---------|------|--|--------------------------------------|
| 1       | 1    | Nature and scope of Human Geography, Branches of Human Geography, Approaches to the study of Human Geography   |                                      |
| 2       | 2    | Division of Mankind: Spatial distribution of race of India; concept of man- environment relation: A historical approach.                                   |                                      |
| 3       | 3    | Human adaptation to the environment: (i) Cold region-Eskimo, (ii) Hot region-Bushman, (iii) Plateau-Gonds, (iv) Mountains-Gujjars                          | CLASS TEST                           |
| 4       | 4    | Meaning, nature and components of resources; Classification of resources-renewal and non-renewable; biotic and abiotic, recyclable and non-recyclable      | PRESENTATIONS /ASSIGNMENTS           |
| 5       | 5    | Distribution and density of world population, population growth, Demographic Transition Model.   |                                      |
| 6       | 6    | Concept of over, under and optimum population; Population theories: Malthus, Ricardo and Marx.   | CLASS TEST                           |
| 7       | 7    | Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns, Problems of urbanization in India. | PRESENTATIONS /ASSIGNMENTS           |
| 8       | 8    | Population pressure, resource use and environment degradation; sustainable development, concept of deforestation, soil erosion, air and water pollution.   |                                      |
| 9       | 9    | REVISION AND DOUBT CLEARANCE   |                                      |
| 10      | 10   | REVISION AND DOUBT CLEARANCE   |                                      |
| 11      | 11   | REVISION AND DOUBT CLEARANCE   |                                      |
| 12      | 12   | REVISION AND DOUBT CLEARANCE   | FINAL TEST                           |
| 13      | 13   | REVISION AND DOUBT CLEARANCE   |                                      |
| 14      | 14   | REVISION AND DOUBT CLEARANCE   |                                      |