**Lesson Plan**

**M.Sc. Geography\_2nd Semester\_ Geomorphology (2021-22Even semester)**

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| Sr. No | Topics | No. of Days | Completed up to | Activities |
|  | **UNIT-I** |
| 1 | Introduction to geomorphology as a science: definition, nature, scope and recentdevelopments. | 7 | 18 Aug |  |
| 2 | Fundamental concepts:(i) Geological structure and landforms(ii) Uniformitarianism(iii) Multicycle and polygenetic evolution of landscape(iv) Frequency concept of geomorphic processes(v) Climatogenetic geomorphology | 10 |  | Class Test 1 |
|  | **UNIT-II** |
| 3 | Continental drift theory and its basic considerations; Plate tectonics-meaning and concept, margins and boundaries, plate motion and cycle; Tectonic activities along boundaries and distribution of plates. | 10 | 7 Sept | Assignment 1 |
| 4 | Hill slope-definition and forms of slope, geomorphic processes and slope forms, slope evolution: down wearing, parallel retreat and slope replacement models. | 12 |  | Student’s power point presentation |
|  | **UNIT-III** |
| 5 | Weathering: Causes; types of weathering: physical, chemical and biological. | 10 | 1 Oct | Student’s power point presentation |
| 6 | Mass movement, causes, classifications and types of mass movements- slow and rapid mass movements. | 07 |  | Assignment 2 |
|  | **UNIT-IV** |
| 7 | Geomorphic processes and resulting land forms:(i) Fluvial(ii) Glacial(iii) Aeolian(iv) Karst | 12 | 29 Oct | Class Test 2 |
| 8 | Applied geomorphology: Meaning and concept, role of geomorphology in environmentalmanagement of the following:(i) Accelerated erosion and sedimentation(ii) Construction of large dams(iii) Urban geomorphology | 10 |  |  |
|  | Revision | 12 | Up to Exam |  |

Department of Geography

Lesson plan- 2021-22 (Even Semester)

Population Geography, GEOG-202- Theory

Class- M. Sc. I, Semester-2

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| Month/Year | Topic to be covered | Co-curricular Activities |
| April, 2022 | Nature and scope of population geography.Methodological problems in population geography.Sources of population data, quality and reliability of data, problems of mapping population data | Assignment class test, QuizTopical presentationsGeographical demonstrationsExtension lecturesGeographical important day celebrations,Geographical events etc  |
| May, 2022 | Concepts, determinants and world patterns of the following attributes of population:-Distribution and density-Vital rates: birth and death rates-Migration (including laws of migration)-Growth- Age and Sex Composition-Occupation-Literacy |
| June, 2022 | Demographic Transition ModelPopulation Resource RegionsTheories of population: -Malthus, -Ricardo -Marx |
| July, 2022 | Population policy of IndiaComparative study of population problems and policies of developed and less developed countriesPopulation and Environment: Implications for the futureRevision |

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Department of Geography

Lesson plan- 2021-22 (Even Semester)

Regional Development and Planning (with Special Reference to India), GEOG-203 Theory

Class- M. Sc. I, Semester-2

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| Month/Year | Topic to be covered | Co-curricular Activities |
| April, 2022 | Regional Development: Concept of Space and Region, Typology of Regions, PlanningRegions; planning regions of India and their characteristics | Assignment class test, QuizTopical presentationsGeographical demonstrationsExtension lecturesGeographical important day celebrations,Geographical events etc  |
| May, 2022 | Theories of Regional DevelopmentTheory of Polarized Development, -F. Perroux Model, -Hirschman Theory, -Myrdal Theory; - J. Friedman,Ecological Theory of Sustainable Development |
| June, 2022 | Development and Regional Disparities in India since Independence-Disparities in Agricultural Development-Disparities in Industrial Development.-Disparities in Human Resource Development in terms of education and health |
| July, 2022 | Approaches to regional planning in IndiaPlanning in India through Five Year Plans; Special Area Development PlansMetropolitan Planning; Regional Problems and Prospects in India.Revision, discussion, assignments and tests |

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Lesson plan- 2021-22 (Even Semester)

Agricultural Geography, GEOG-204 Theory

Class- M. Sc. I, Semester-2

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| Month/Year | Topics to be covered | Co-curricular Activities |
| April, 2022 | * Nature, scope and significance of agricultural geography
* Origin and dispersal of agriculture
* Determinants of agricultural patterns:
* physical,
* technological and
* cultural factors
 | Assignment class test, QuizTopical presentationsGeographical demonstrationsExtension lecturesGeographical important day celebrations,Geographical events etc  |
| May, 2022 | * Concepts of land capability survey,
* land use and
* Cropping pattern.
* Approaches in agricultural regionalization:
* Von Thunen Model of agricultural land use,
* Crop combination, concentration and diversification
* Agro-climatic Zonation : Concept and Indian experience.
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| June, 2022 | * Development and Regional Disparities in India since Independence
* Disparities in Agricultural Development
* Disparities in Industrial Development
* Disparities in Human Resource Development in terms of education and health
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| July, 2022 | * Food production and security in India.
* Neo-liberalization and Indian agriculture.
* Agriculture and climate change: Impacts and adaptation
* Revision, discussion & Assignments &Tests
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Lesson plan- 2021-22 (Even Semester)

Interpretation of Toposheets and Morphometric Analysis (Practical), GEOG-205

Class- M. Sc. I, Semester-2

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| Month/Year | Topics to be covered | Co-curricular activities |
| April, 2022 | * Interpretation of Toposheets
* Physical features and
* Cultural features.
* Profile Analysis: Transverse and Longitudinal
* Serial Profiles
* Superimposed Profiles
* Composite Profiles
* Projected Profiles
* Longitudinal or valley Thalweg Profile.
 | Assignment class test, QuizTopical presentationsGeographical demonstrationsExtension lecturesGeographical important day celebrations,Geographical events etc  |
| May, 2022 | * Profile Analysis
* Projected Profiles
* Longitudinal or valley Thalweg Profile.
* Linear Aspects of streams
* Relationship between stream order and stream Number
* Relationship between stream order and Average stream length
* Areal Aspects of streams
* Drainage Frequency
* Drainage Texture/Density
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| June, 2022 | * Relief Aspect of Streams
* Area Height Curve
* Altimetric frequency curve
* Hypsographic Curve
* Hypsometric Integral Curve
* Clinographic or clinometric curve
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| July, 2022 | * Slope Analysis
* Wentworth’s Method of Average Slope
* G. H. Smith’s Method of Relative Relief.
* Revision, practice discussion & assignments & tests
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