**Lesson Plan**

**M.Sc. Geography\_2nd Semester\_ Geomorphology (2022-23Even 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 environmental  management 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- 2022-23 (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 |
| February. 2023 | 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,  Topical presentations  Quiz  Geographical terms and concepts demonstrations etc. |
| March, 2023 | 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 |
| April, 2023 | Demographic Transition Model  Population Resource Regions  Theories of population:  -Malthus,  -Ricardo  -Marx |
| May, 2023 | Population policy of India  Comparative study of population problems and policies of developed and less developed countries  Population and Environment: Implications for the future  Revision |

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Department of Geography

Lesson plan- 2022-23 (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 |
| February. 2023 | Regional Development: Concept of Space and Region,  Typology of Regions,  Planning  Regions; planning regions of India and their characteristics | Assignment,, class test,  Topical presentations  Quiz  Geographical terms and concepts demonstrations etc. |
| March, 2023 | Theories of Regional Development  Theory of Polarized Development,  -F. Perroux Model,  -Hirschman Theory,  -Myrdal Theory;  - J. Friedman,  Ecological Theory of Sustainable Development |
| April, 2023 | 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 |
| May, 2023 | Approaches to regional planning in India  Planning in India through Five Year Plans;  Special Area Development Plans  Metropolitan Planning; Regional Problems and Prospects in India.  Revision, discussion, assignments and tests |

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Lesson plan- 2022-23 (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 |
| February. 2023 | * Nature, scope and significance of agricultural geography * Origin and dispersal of agriculture * Determinants of agricultural patterns: * physical, * technological and * cultural factors | Assignment,, class test,  Topical presentations  Quiz  Geographical terms and concepts demonstrations etc. |
| March, 2023 | * 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. |
| April, 2023 | * 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 |
| May, 2023 | * 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- 2022-23 (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 |
| February, 2023 | * 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,  Topical presentations  Quiz  Geographical terms and concepts demonstrations etc. |
| March, 2023 | * 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 |
| April, 2023 | * Relief Aspect of Streams * Area Height Curve * Altimetric frequency curve * Hypsographic Curve * Hypsometric Integral Curve * Clinographic or clinometric curve |
| May, 2023 | * 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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