**Lesson Plan**

**M.Sc. Geography\_2nd Semester\_ Geomorphology (2018-19 Even 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 |  |

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Lesson plan- 2018-19 (Even Semester)

Population Geography, GEOG-202- Theory

Class- M. Sc. I, Semester-2

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| Month/Year | Topic to be covered |
| July, 2016 | 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 |
| August, 2016 | 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 |
| September, 2016 | Demographic Transition ModelPopulation Resource RegionsTheories of population: -Malthus, -Ricardo -Marx |
| October/Nov, 2016 | 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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Lesson plan- 2018-19 (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 |
| July, 2016 | Regional Development: Concept of Space and Region, Typology of Regions, PlanningRegions; planning regions of India and their characteristics |
| August, 2016 | Theories of Regional DevelopmentTheory of Polarized Development, -F. Perroux Model, -Hirschman Theory, -Myrdal Theory; - J. Friedman,Ecological Theory of Sustainable Development |
| September, 2016 | 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 |
| October/Nov, 2016 | Approaches to regional planning in IndiaPlanning in India through Five Year Plans; Special Area Development PlansMetropolitan Planning; Regional Problems and Prospects in India.Revision |

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Lesson plan- 2018-19 (Even Semester)

Agricultural Geography, GEOG-204 Theory

Class- M. Sc. I, Semester-2

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| Month/Year | Topic to be covered |
| July, 2016 | Nature, scope and significance of agricultural geographyOrigin and dispersal of agricultureDeterminants of agricultural patterns: -physical, -technological and -cultural factors |
| August, 2016 | 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 diversificationAgro-climatic Zonation : Concept and Indian experience. |
| September, 2016 | 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 |
| October/Nov, 2016 | Food production and security in India.Neo-liberalization and Indian agriculture.Agriculture and climate change: Impacts and adaptationRevision |

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Lesson plan- 2018-19 (Even Semester)

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

Class- M. Sc. I, Semester-2

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| Month/Year | Topic to be covered |
| July, 2016 | 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. |
| August, 2016 | 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 lengthAreal Aspects of streams-Drainage Frequency-Drainage Texture/Density |
| September, 2016 | Relief Aspect of Streams-Area Height Curve-Altimetric frequency curve-Hypsographic Curve-Hypsometric Integral Curve-Clinographic or clinometric curve |
| October/Nov, 2016 | Slope Analysis-Wentworth’s Method of Average Slope-G. H. Smith’s Method of Relative Relief.Revision |

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