**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 environmental  management 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 Model  Population Resource Regions  Theories of population:  -Malthus,  -Ricardo  -Marx |
| October/Nov, 2016 | 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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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,  Planning  Regions; planning regions of India and their characteristics |
| August, 2016 | Theories of Regional Development  Theory 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 India  Planning in India through Five Year Plans;  Special Area Development Plans  Metropolitan 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 geography  Origin and dispersal of agriculture  Determinants 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 diversification  Agro-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 adaptation  Revision |

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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 length  Areal 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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