Department of Geography

Lesson plan- 2018-19 (Even Semester)

Geographical Thought, GEOG-401

Class- M. Sc. II, Semester-4

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| Month/Year | Topic to be covered |
| July, 2016 | Classification of knowledge,  Nature of Geography and its place among sciences  Nature of Geographic knowledge during ancient  -Greek and Roman Period  -medieval (Arab) period |
| August, 2016 | Foundation of Modern Geography-contributions of-  -Varenius, Kant, Humboldt and Ritter  Emergence of Geography as a study of  -physical features  -chorology  -landscapes  Concepts and dualism in Geography:  -Environmental Determinism and Possibilism,  -Physical vs Human Geography, |
| September, 2016 | Concepts and dualism in Geography  -Systematic vs Regional Geography  Areal Differentiation  Quantitative Revolution-Emergence of theoretical geography  Positivist Explanations in Geography-  -Laws, theories and models  -inductive & deductive logic |
| October/Nov, 2016 | Behavioral and Humanistic Perspectives in Geography  Social Relevance in Geography- Welfare, Radical and Feminist Perspectives  Postmodernism and Geography  Revision |

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Department of Geography

Lesson plan- 2018-19 (Even Semester)

Hydrology and Oceanography, GEOG-402

Class- M. Sc. II, Semester-4

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| Month/Year | Topic to be covered |
| July, 2016 | Definition, nature, scope and historical development of hydrology  Relationship of hydrology with other physical sciences  Hydrological cycle,  estimation of global water budget,  human impact on hydrological cycle |
| August, 2016 | Rainfall: frequency, intensity and measurement,  accuracy of rainfall measurement,  determination of average rainfall (Arithmetic mean, Theiesson polygon, isohytel methods),  variations in rainfall and world distribution  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 |
| September, 2016 | Major topographic features of ocean basins, bottom relief of –  -Atlantic, Pacific and Indian oceans  Sources, classification and distribution of ocean deposits,  Corals-origin, types and conditions for development  Theories of the origin of coral reefs (Subsidence and standstill) |
| October/Nov, 2016 | Origin, causes, types and effects of the ocean currents,  Currents of the Atlantic, Pacific and Indian oceans.  Oceanic temperature: distribution and causes of variation  Composition of oceanic water and distribution of salinity  Revision |

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Lesson plan- 2018-19 (Even Semester)

Regional Geography of India (with special reference to Haryana), GEOG-403(i)

Class- M. Sc. II, Semester-4

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| Month/Year | Topic to be covered |
| July, 2016 | Concept and types of regions and regionalization  Regional Diversities in India |
| August, 2016 | Critical Review of schemes of regionalization of India: Baker and Stamp, Pithawala, Spate and Learmonth and R L Singh  Macro Regions of India: Himalayas, Indo-Ganga Plains, Indian Peninsula physical and socio-economic characteristics  Bases of demarcation of Meso Regions in India  Schemes of socio-economic regionalization:  -Asok Mitra, P.Sengupta & |
| September, 2016 | Schemes of socio-economic regionalization  -Galina Sadasyuk, B.K. Roy  Physical and economic diversities in Haryana  -Relief, Climate, Drainage, Groundwater, Soils and Natural Vegetation  -Agriculture and its spatial organization  -Industry, Transport and Communication |
| October/Nov, 2016 | Demographic characteristics and diversities in Haryana  Social diversities in terms of education and health in Haryana  Social region of Haryana  Revision |

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Lesson plan- 2018-19 (Even Semester)

Urbanization in India**,** GEOG-403(v)

Class- M. Sc. II, Semester-4

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| Month/Year | Topic to be covered |
| July, 2016 | History of urbanization in India:  -Ancient, Medieval, Colonial and post independence phases of urbanization |
| August, 2016 | Processes of urbanization: Socio-cultural, political, economic and geographical processes  Patterns of urbanization:  -settlement structure,  -level of urbanization,  -criteria of measurement  -spatial patterns of urbanization in India  Recent trends of urbanization in India. |
| September, 2016 | Urban regions of India: case studies of metropolitan regions of-  -Delhi, Mumbai, Kolkata and Chennai  Contemporary Urban issues:  -Urban poverty,  -slums and urban renewal,  -urban infrastructure  -solid waste management |
| October/Nov, 2016 | Role of urbanization in economic and social change  SEZ : Concept, policies and consequences  National urbanization policy  Revision |

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**Lesson Plan**

**M.Sc. Geography\_4th Semester\_ Fundamental of Geographical Information Systems (Theory) (2018-19 Even semester)**

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| Sr. No | Topics | No. of Days | Completed up to | Activities |
| 1 | GIS: concept, definition, and development. | 07 | 14 Aug |  |
| 2 | Hardware and software requirements for GIS environment | 07 | 10 Sept | Assignment 1 |
| 3 | Data for GIS: (i) Spatial data and their sources (ii) Non –spatial data and their sources; (iii) data structure: vector and raster | 12 | 4 Oct | Class Test1 |
| Student’s power point presentation |
| 4 | Data Base Management System; Sources of errors in GIS database. | 15 | 31 Oct | Student’s power point presentation |
| 5 | Map, scale, and map projection: Need of projection, spherical co-ordinate system andproperties. | 10 |  | Assignment 2nd |
| Student’s power point presentation |
| 6 | Integration of Remote Sensing data into GIS and its application in resource mapping, urban management, and real time mapping. | 15 |  | Class Test2 |
| 7 | Current issues in GIS. | 10 |  |  |
| 5 | Revision |  | Up to Exam |  |

Department of Geography

Lesson plan- 2018-19 (Even Semester)

Fundamental of Geographical Information Systems (Practical),GEOG-405(B)

Class- M. Sc. II, Semester-4

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| Month/Year | Topics to be covered |
| July, 2016 | Georeferencing  Creation of Geo-data base and shape file  Revision & Practice |
| August, 2016 | On screen digitization/vectorisation of spatial data in the form of 3 layers-  -polygon,  -polyline  -point  Revision & Practice |
| September, 2016 | Adding attributes to these layers and statistical calculations  Displaying attribute data on map by various methods  Revision & Practice |
| October/Nov, 2016 | Preparing layout and printing of theme map  Revision & Practice |

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