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 sciencesNature of Geographic knowledge during ancient -Greek and Roman Period-medieval (Arab) period |
| August, 2016 | Foundation of Modern Geography-contributions of- -Varenius, Kant, Humboldt and RitterEmergence of Geography as a study of -physical features -chorology -landscapesConcepts and dualism in Geography: -Environmental Determinism and Possibilism, -Physical vs Human Geography,  |
| September, 2016 | Concepts and dualism in Geography -Systematic vs Regional Geography Areal DifferentiationQuantitative Revolution-Emergence of theoretical geographyPositivist Explanations in Geography- -Laws, theories and models-inductive & deductive logic |
| October/Nov, 2016 | Behavioral and Humanistic Perspectives in GeographySocial Relevance in Geography- Welfare, Radical and Feminist PerspectivesPostmodernism and GeographyRevision |

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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 hydrologyRelationship of hydrology with other physical sciencesHydrological 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 distributionSources 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 oceansSources, classification and distribution of ocean deposits, Corals-origin, types and conditions for developmentTheories 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 variationComposition of oceanic water and distribution of salinityRevision |

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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 regionalizationRegional Diversities in India |
| August, 2016 | Critical Review of schemes of regionalization of India: Baker and Stamp, Pithawala, Spate and Learmonth and R L SinghMacro Regions of India: Himalayas, Indo-Ganga Plains, Indian Peninsula physical and socio-economic characteristicsBases of demarcation of Meso Regions in IndiaSchemes 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 HaryanaSocial diversities in terms of education and health in HaryanaSocial region of HaryanaRevision |

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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 IndiaRecent trends of urbanization in India. |
| September, 2016 | Urban regions of India: case studies of metropolitan regions of--Delhi, Mumbai, Kolkata and ChennaiContemporary Urban issues: -Urban poverty, -slums and urban renewal, -urban infrastructure-solid waste management |
| October/Nov, 2016 | Role of urbanization in economic and social changeSEZ : Concept, policies and consequencesNational urbanization policyRevision |

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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 | GeoreferencingCreation of Geo-data base and shape fileRevision & Practice |
| August, 2016 | On screen digitization/vectorisation of spatial data in the form of 3 layers- -polygon, -polyline -pointRevision & Practice |
| September, 2016 | Adding attributes to these layers and statistical calculationsDisplaying attribute data on map by various methodsRevision & Practice |
| October/Nov, 2016 | Preparing layout and printing of theme mapRevision & Practice |

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