LESSON PLAN FOR M.Sc. (2nd Sem) (NEP) (2024-25)

SUBJECT: GEOGRAPHY (THEORY)

Month/Paper/Teacher's Name	January	February	March	April	May
GEO- 201 Geography in Hazard Management Mr Virender	Unit I 1. Risk, hazards and disasters: definitions, distinctions. 2. Hazards: classification and dimensions. 3. Disaster effects and impacts (physical and social).	Unit II 4. Disaster rulnerability: definition, types, measures and affecting factors. 5. Disaster risk assessment and management. 6. Disaster cycles: mitigation measures and prqraredness.	Unit III 7. Desertification: causesr assessment, effects and control measures. 8. Sea level change: causes, consequences, and control measures. 9. Technological hazards: nature, theories and practice, perception, mitigation, protection and adaptation.	Unit IV 10. Disaster risk reduction framework: Hygo and Sandai. II. Disaster management in India: strategies, policies and organizational structure setup. 12. Geospatial technology applications in disaster prevention and monitoring.	Revision
GEO – 202 Research Methodology in Geography Dr. Sanjeev Goel	Unit I Introduction to research methodology: meaning and objectives of research, characteristics of research, types of research. Introduction of research design: purpose and characteristics of design, problems and formulation of research design in geography.	Unit II Sources of data: characteristics of primary and secondary data, significance of field work in geography. Sampling design for collection of primary data, quantitative and qualitative data, hypothesis formulation and testing.	Unit III Remotely sensing data: processes of obtaining data, air and space based, types of satellites, sensors characteristics, resolution and types. Panchromatic, multispectral, thermal and hyperspectral remote sensing data, characteristics and significance.	Unit IV Indian remote sensing resource satellites data, changing characteristics, significance and uses; applications of remote sensing data in geographical research: data requirement for urban, agriculture and resource mapping and monitoring. Format of report/ dissertation/ thesis writing.	Revision
GEO - 203 Geography of Agriculture and Food Security Mr Sunil Kumar	Unit I Nature scope and significance of agricultural geography Origin and dispersal of agriculture. Determinants of agricultural patterns: physical, technological and cultural factors. Approaches to the study of agriculture geography regional and systematic approach, ecological and commodity	Unit II Concepts of land capability classification: land use survey and classification. Concept of intensity of cropping, degree of commercialization, cropping diversification and concentration, crop combination; von thunen model of agricultural land use	Unit III agricultural regionalization concept and criteria; Whittlesey's agricultural systems; measurement of agriculture efficiency and productivity. Agro- climatic zonation: concept and Indian experiences.	UnitIV Neo-liberalization and Indian agriculture; problems of Indian agriculture; food and security in india. Perspectives in agriculture; urban agriculture, contract farming, agri-business, sustainable agricultural development; agriculture and climate change: impacts and adaptation; Indian agricultural policies and challenges.	Revision
GEOG – 204 Population Dynamics and Policies Dr. Sanjeev Goel	Unit I Sources , quality, reliability and applications of population data. Methodological problems in population geography. Problems of mapping population data. Note: Assignment-I	Unit II Concepts, measurements, determinants and world patterns of fertility, mortality, migration (including policies) and growth. Composition of Population: Concepts, measurements, determinants and world patterns of age and sex, occupational structure and workforce. Demographic dividend: linkages between population and economic development.	Unit III Theories of population (Malthus, Ricardo and Marx) Demographic Transition Model. Population Resource Relations: concepts of overpopulation, under population and optimum population; Population resource regions. Limits to growth: concept and application. Note: Assignment- II	Unit IV Comparative study of population problems and policies of developed and less developed countries. Population problems and Environmental Implications. Note: Thematic Test	Revision
Constitutional, Human and Moral Values, and IPR Mr Virender	Unit I Constitutional Values: Historical Perspective of Indian Constitution; Basic Values enshrined in the Preamble of the Indian Constitution; Concept of Constitutional Morality; Patriotic Values and Ingredients Nation Building; Fundamental Rights and Duties; Directive Principles of the State Policy.	Unit II Humanistic Values:Humanism, Human Virtues and Civic Sense; Social Responsibilities of Human Beings; Ethical ways to deal with human aspirations; Harmony with society and nature; Idea of International Peace and Brotherhood (Vasudhaiv Kutumbkam).	Unit III Moral Values and Professional Conduct: Understanding Morality and Mora[Values; Moral Education and Character Building; Ethics of Relations: Personal, Social and Professional, Introduction to Gender Sensitization; Affirmative approach towards Weaker Sections (SCs, STs, OBCs, EWS& DAs); Ethical Conduct in Higher Education Institutions; Professional Ethics.	Unit IV Intellectual Property Rights: Meaning, Origins and Nature of Intellectual Property rights (IPRs); Different Kinds of IPRs - Copyright, Patent, Trademark, Trade Secrets, Traditional Knowledge; Infringement and Offences of IPRs - Remedies and Penalties; Basics of Plagiarism policy of UGC.	Revision

LESSON PLAN FOR M.Sc. (4th Sem) (2024-25) SUBJECT: GEOGRAPHY (THEORY)

Month/	January	February	March	April	May
Paper	-	-		_	_
Teacher's Name					
GEOG- 401	Unit I	Unit II	Unit III	Unit IV	Revision
Geographical	Classification of knowledge, Nature	Emergence of Geography as a	Quantitative Revolution -	Behavioral and Humanistic	
Thought	of Geography and its place among	study of (i) physical features (ii)	Emergence of theoretical	Perspectives in Geography.	
Thought	sciences.	chorology (iii) landscapes.	geography.	Social Relevance in Geography -	
Dr. Sanjeev Goel	Nature of Geographic knowledge	Concepts and dualism in	Positive Explanations in	Welfare, Radical and Feminist	
Di. Sanjeev Goei	during ancient (Greek and Roman)	Geography: Determinism and	Geography – Laws, theories,	Perspectives.	
	and medieval (Arab) periods.	Possibilism, Areal Differentiation;	models, inductive and	Postmodernism and Geography.	
	Foundation of Modern Geography –	Physical vs Human Geography,	deductive logic.	Note: Thematic Test	
	Varenius, Kant, Humboldt and	and Systematic vs Regional			
	Ritter.	Geography			
CEOC 402	Note: Assignment-I Unit I	Note: Assignment-II Unit II	Unit III	Unit IV	Revision
GEOG – 402	Definition, nature, scope and	Rainfall: frequency, intensity and	Major topographic features of	Origin, causes, type, and effects of the	Kevision
Hydrology and	historical development of hydrology.	measurement, accuracy of rainfall	ocean basin, bottom relief of	ocean currents, currents of the Atlantic,	
Oceanography	Relationship of hydrology with other	measurement, determination of	atlantic, pacific and Indian	Pacific and Indian oceans.	
	physical sciences.	average rainfall (Arithmetic mean,	oceans	Oceanic temperature: distribution and	
Mr Sunil Kumar	Hydrological cycle, estimation of	theiesson polygon, isohyet,	Sources classification and	causes of variation.	
	global water budget, human impact	variations in rainfall and world	distribution of ocean diposits,	Composition of oceanic water and	
	on hydrological cycle.	distribution.	corals-origin, types and	distribution of salinity	
	Note: Assignment-I	Sources, and measurement of	conditions for development.	Note: Thematic Test	
	_	stream flow, hydrograph factors	Theories of the origin of coral		
		affecting the hydrograph shape,	reefs (subsidence and		
		methods of hydrograph	standstill)		
		separation, variations in runoff,			
		rainfall-runoff relationship.			
CEO 402	***	Note: Assignment-I	** ** ***	WT *4 WW7	n
GEO – 403	Unit I	Unit II	Unit III	Unit IV	Revision
Reg. Geog. Of	Concept and types of regions and regionalization	Macro Regions of India Bases of demarcation of Meso	Physical and economic	Demographic characteristics and diversities in Haryana.	
India (Haryana)	Regional Diversities in India	Regions in India.	diversities in Haryana	Social diversities in terms of education	
	Critical Review of schemes of	Schemes of socio-economic		and health in Haryana.	
Mr Virender	regionalization of India	regionalisation		Social region of Haryana.	
	Note: Assignment-I	Note: Assignment-II		Note: Test	
GEO – 404	Unit I	Unit II	Unit III	Unit IV	Revision
Urbanisation in	History of urbanization in India	Patterns of urbanization:	Urban regions of India: case	Role of urbanization in economic and	
India	Processes of urbanization: Socio-	settlement structure, level of	studies of metropolitan regions	social change.	
	cultural, political, economic and	urbanization, criteria of	of Delhi, Mumbai, Kolkata and	SEZ: Concept, policies and	
Dr Sanjeev Goel	geographical processes	measurement and spatial patterns	Chennai.	consequences. National urbanization	
Di Banjeev Guei	Note: Assignment-I	of urbanization in India.	Contemporary Urban issues:	policy	
		Recent trends of urbanization in	Urban poverty, slums and	N	
		India.	urban renewal, urban	Note: Test	
		Note: Assignment-II	infrastructure and solid waste		
GEO – 405	Unit I	Init I	management.	Unit II	Init II
	Unit I 1. GIS: concept, definition and	Unit I	Unit I 4. Data Base Management	5. Map, scale and map projection: Need	Unit II 7 Current issues in GIS
Fundamentals of	development.	2. Hardware and software requirements for GIS environment	System; Sources of errors in	of projection, spherical co-ordinate	7. Current issues in GIS.
GIS				system and	
	de reispinenti	3 Data for GIS · (i) Spatial data	GIS database		
	de retopment.	3. Data for GIS: (i) Spatial data and their sources (ii) Non—spatial	GIS database	1 3	
Dr. Ganeshwari	ac respine	and their sources (ii) Non -spatial	GIS database	properties.	
Dr. Ganeshwari	ac respine		GIS database	properties. 6. Integration of Remote Sensing data	
Dr. Ganeshwari	ac respine	and their sources (ii) Non –spatial data and their sources; (iii)	GIS database	properties.	