DEPARTMENTOFGEOGRAPHY 2024-25(NEP SYLLABUS)

PAPER CODE: GEOADS01T SEMESTER HONS/GENERAL TOPIC TEACHER DISTRIBUTION PROJECT/IF UNIT NO.OF LECTURES ANY (60) I MAJOR I S.R July-August 6 1. Internal Structure(Earth) 2. Granite and Basaltic July-August 5 Landforms. S.D August-3. Exogenetic& September **Endogenetoic Forces** 6 S.Dh 4. Fluvial Landforms 12 5. Hazards (India) I MAJOR Ш 6.Layers of M.B 5 August-September Atmosphere M.B 6 September-7. Pressure Belts, Jet October Streams. S.R 8. Soil Formation. 15 October-9. Soil Profile. November 10. Concept of Eco-System. 5 S.Dh December-11.Concept of Biome January

PAPER CODE: GEOADS01P

SEMESTER	HONS/GENERAL	UNIT	TOPIC	TEACHE	NO.OF	DISTRIBUTION	PROJECT/IF
				R	LECTURES		ANY
	MAJOR		1. Linear Scale	S.D.	60	July-August	
1			2. Altimetric Curve, Physiographic Zones 3. Drainage, Geomorphic, Settlement, Transport (Topographical Sheet) 4. Drainage & Channel Patterns(Topographic al Sheet) 5. Wind Rose	S.R M.B M.B M.B S.Dh		August July-October November- December July-August	

SEMESTER	HONS/GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES (45)	DISTRIBUTION	PROJECT/IF ANY
I	MAJOR		1. Principles of remote Sensing 2. Sensor Resolution of IRS and Landsat Mission 3. Preparation of FCC	S.D	25	July-August August July-October	yes
			from IRS and Landsat, TM,OLI 4. Preparation of LULC Features from Satellite Imageries	M.B	20	November- December July-August	

PAPER CODE: GEOSE-01M-REMOTE SENSING

PAPER CODE: GEOADS02T

SEMESTER	HONS/GENERAL	UNIT	ΤΟΡΙϹ	TEACH ER	NO.OF LECTURES (45)	DISTRIBUTION	PROJECT/IF ANY
II	MAJOR	Ι	 Introduction to Human Geography Approaches to Human Geography 	S.D S.D	10	February-April	
II		II	3. Evolution of Human Societies	S.Dh	17	March	
			4. Human Adaptation to Environment	M.B		April	
			5.Distribution,Density,Grow th(World Population)	S.R		May	
			6.Demographic Transition Theory			June	
11		III	7.Sectors of Economy 8.Types of Agriculture 9.Site,Situation,types, patterns(Rural Settlements)	S.Dh	18	March- April	
			10.Classification(Urban Settlements)	M.B		May-July	

PAPER CODE: GEOADS02P

SEMESTER	HONS/GENERAL	UNIT	ΤΟΡΙϹ	TEACH ER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
11	MAJOR		 Growth Rate of Population of two decadal datasets Choropleth Map Types of 	S.Dh	60	July March	
			Settlements(Topographi cal Map) 4. Transect Chart 5. Proportional Pie	M.B		March-May July	
			Diagrams & Proportional Square Diagram	S.D		April-June	

SEMESTER	HONS/GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES (75)	DISTRIBUTION
I	MINOR	I	1. Internal Structure(Earth)	S.R	6	July-August
			2. Granite and Basaltic Landforms.		6	July-August
			3. Exogenetic & Endogenetoic Forces	S.D	8	August- September
			4. Fluvial Landforms 5. Hazards (India)	S.Dh	15	
I	MINOR	11	6.Layers of Atmosphere	M.B	6	August- September
			7. Pressure Belts, Jet Streams.	M.B	8	September- October
			8. Soil Formation. 9. Soil Profile.	S.R	18	October- November
			10. Concept of Eco- system. 11.Concept of Biome	S.Dh	8	December- January

PAPER CODE: GEOAHM01T

PAPER CODE: GEOHM02T

SEMESTER	HONS/ GENERAL	UNIT	ТОРІС	TEACHER	NO.OF LECTURES (75)	DISTRIBUTION	PROJECT/IF ANY
Ξ	MINOR	I	I. Introduction to Human Geography 2. Approaches to Human Geography	S.D S.D	20	February-April	
Ш	II MINOR	II	3. Evolution of Human Societies	S.Dh	27	March	
			4. Human Adaptation to Environment 5. Distribution,Density, Growth(World Population)	M.B		April May	
			6.Demographic Transition Theory	S.R		June	
II	MINOR	111	7.Sectors of Economy 8.Types of Agriculture	S.Dh	28	March-April	
			9.Site,Situation,types, patterns(Rural Settlements)			May-July	
			10.Classification(Urban Settlements)	M.B			

PAPER CODE: GEOADS03T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
111	MAJOR	I	1.Earth's tectonic structural evolution with reference to geological time scale, with special reference to the events of the events of the Pleistocene 2. Isostasy: Models of Airy and Pratt, and their applicability 3. Plate Tectonics as a unified theory of global tectonics: Processes and landforms at plate margins and hotspots 4. Folds and Faults- Formation and classification	S.D S.D	20	February-April	
III	MAJOR	II	6.Degradation processes: Weathering, mass wasting and resultant landforms 7. Development of river network and landforms on uniclinal and folded structures, Surface expression of faults.	SDH MB	27	March April May June	
			8.Coacial and glacio- fluvial processes and landforms	SDH			
			9. Aeolian and fluvio- aeolian processes and landforms 10. Models on landscape evolution: views of Davis, Penck and Hack	MB			

PAPER CODE: GEOADS03P

SEMESTER	HONS/ GENERAL	UNIT	ТОРІС	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
111	MAJOR		 Megascopic identification of (a) mineral samples: Bauxite, calcite, chalcopyrite, feldspar, galena, gypsum, hematite, magnetite, mica, quartz, talc, tourmaline and (b) rock samples:- Granite, basalt, dolerite, laterite, limestone, shale, conglomerate, slate, phyllite, schist, gneiss, quartzite, marble interpretation of geological maps with uniclinal structure, folds, unconformity and intrusions Reference scheme of Survey of India Everest and Open Series bMaps, Map margin information. Extraction and interpretation of geomorphic information from Survey of India 1:50,000 topographical 	S.D S.D	20	February-April	

maps of plateau region:		
Construction and		
inyerpretation of relief profiles		
(serial, superimposed,		
projected and composite)		
4. Drainage basin delineation,		
stream ordering(Strahler) on		
the delineated drainage basin		
5. Morphometric analysis:		
Preparation of Relative		
Relief(Smith), Average		
Slope(Wentworth) and		
Drainage Density (Horton) on a		
delineated drainage basin.		
(6) Construction of hypsometric		
curve and derivation of		
hypsometric integer of a		
drainage basin of plateau		
region.		
7. Determination of channel		
sinuosity index (channel		
length/ valley length measured		
through straight line) and		
braiding index of rivers from		
topographical maps (c. 10-km		
reach)		
8. Viva voce based on		
laboratory notebook		
	ΙΙ	

PAPER CODE: GEOSE-3M

SEMESTER	HONS/ GENERAL	UNIT	ТОРІС	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
111	MAJOR	I	 Defining research problem, objectives and hypothesis. Literature review and formulation of research design Research materials and methods Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords Plagiarism: Classification and prevention 	S.D S.D	20	February-April	
111	MAJOR	I	6. Fieldwork in Geographical studies: Role and significance. Selection of study area and objectives. Pre-field academic preparations. Ethics of fieldwork 7. Field techniques and tools: Observation(participant, non- participant),questionnaire (open, closed, structured, non-structured).Interview 8. Field techniques and tools: Landscape survey using transects and quadrants, constructing a	SDH MB SR	27	March April May June	
			sketch, photo and video recording. 9. Positioning and collection of samples. Preparation of inventory from field data.				

10. Post-field tabulation, processing and analysis of quantitative and gualitative data.		
and handling of emergencies.		

PAPER CODE: GEOADS04T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF	DISTRIBUTION	PROJECT/ IF ANY
					S(75)		
IV	MAJOR	I	1. Insolation: Controlling factors. Heat budget of the	S.D	20		
			atmosphere	S.D	20	February-April	
			2. Temperature: horizontal and vertical distribution. Inversion				
			of temperature: types, causes and consequences				
			3. Greenhouse effect and				
			formation, depletion, and significance of the ozone layer				
IV	MAJOR	II	4. Condensation: Process and forms. Mechanism of	SDH	27	March	
			precipitation: Bergeron-			٥٠٠٠٠	
			Findeisen theory, collision			April	
			and coalescence. Forms of				
			precipitation	MB		May	
			5. Air mass: Typology,	IVIB		May	
			origin, characteristics and modification			June	
			6. Types of fronts: warm				
			and cold; frontogenesis and frontolysis				
			7. Weather: stability and				
			instability; barotropic and	SR			
			baroclinic conditions				
			8. Atmospheric				
			disturbances: Tropical				
			and mid-latitude cyclones				
			9. Monsoon circulation and mechanism with				
			reference to India				
			10. Climatic classification				
			after Koppen,				
			Thornthwaite (1955b)				

PAPER CODE: GEOADS04P

SEMESTER	HONS/	UNIT	TOPIC	TEACHER	NO.OF	DISTRIBUTION	PROJECT/
	GENERAL				LECTURE		IF ANY
					S(75)		
IV	MAJOR		1.Interpretation of daily	S.D			
			weather map in India (any		20	February-April	
			two): Pre-Monsoon, Monsoon	S.D			
			and post-Monsoon				
			2. Construction and				
			interpretation of hythergraph				
			and climograph (G. Taylor)				
			3. Construction and				
			interpretation of monthly				

rainfall dispersion diagram (quartile method). Climatic water budget 4. Viva voce based on	
laboratory notebook	

PAPER CODE: GEOADS05T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
IV	MAJOR	I	 Meaning and approaches to Economic Geography. Concepts in Economic Geography: Goods and services, production, exchange and consumption Concept of economic man, theories of choices Economic distance and transport costs Factors affecting location of economic activity with special reference to agriculture (Von Thunen), and industry (Weber) 	S.D S.D	20	February-April	
IV	MAJOR	II	6. Primary activities: Agriculture,forestry, fishing and mining 7. Secondary activities: Manufacturing(cotton textile, iron and steel), concept of manufacturing regions, special economic zones and technology parks 8. Tertiary activities: Transport, trade and services 9. Economic globalization: Concepts and contemporary issues 10. international trade, role of WTO. 11. Emergance of economic blocs(Post W- II): BRICS: Evolution, structure and signlificance	SDH MB	27	March April May June	

PAPER CODE: GEOADS06T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
IV	MAJOR	I	 Tectonic and stratigraphic provinces, physiographic divisions Climate, soil and vegetation regions Tribes of India with special reference of Gaddi,Toda, Santal and Jarwa Agricultural regions. Green revolution (Phase I and II) and their impacts Mineral and power resources distribution and utilization of iron ore, coal, petroleum and natural gas Industrial development: 	МВ	20	February-April	

			Automobile and information technology 7. Regionalisation of India: Physiographic (R.L. Singh) and economic (P. Sengupta)				
IV	MAJOR	II	8. Physical perspectives: Physiographic divisions, forest and water resources 9. Resources: Agriculture, mining, and industry 10. Population Growth, distribution and human development 11. Regional issues: Darjeeling Hills and Sundarban	SDH	27	March April May June	

PAPER CODE: GEOADS07T

SEMESTER	HONS/ GENERAL	UNIT	ТОРІС	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
IV	MAJOR		 Scientific notation, concepts of rounding, logarithm and anti-logarithm, natural and log scales Maps: Classification and types. Components of map Concept and application of scales: Comparative, diagonal and vernier Coordinate systems: Polar and rectangular Concept of generating globe and UTM projection Map projections: Classification, properties and uses Representation of data: Line, Bar, Isopleths Representation of area data: Dots and spheres, proportional circles and Choropleth preparation and interpretation of land use land cover maps preparation and interpretation of socio- 	S.D S.D	20	February-April	

PAPER CODE: GEOADS07P

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURE S(75)	DISTRIBUTION	PROJECT/ IF ANY
IV	MAJOR		 Graphical construction of scales: Comparative, diagonal and Vernier. Construction of projections: Polar Zenithal Gnomonic, Stereographic, Orthographic, Simple Conic with one standard parallel, Bonne's, Cylindrical Equal Area, and Mercator's 	S.D SR	20	February-April	

3. Preparation of Thema	tic
maps:	SDH
- Age-Sex Pyramid -Dots and Sphere diagra	am
showing distribution of run	ral
and urban population. -Flow chart	

CBCS PAPER CODE: GEOACOR11T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
V	HONOURS	I	1.Research Methodology: literature review, research problem, materials &methods, report writing	S.R	60	July- September	
V		II	2. Fieldwork- significance, techniques &tools, landscape survey, sample collection, tabulation	S.R		September- December	

PAPER CODE:GEOACOR11P

SEMESTER	HONS/GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
v	HONOURS		Preparation of field reports	M.B	60	July-January	Submission of field
							reports

PAPER CODE:GEOACOR12T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
V	HONOURS	I	1.PrinciplesofRemote sensing- satellites, sensors, FCC, Landsat TM,OLI,LULC	M.B	30	July- December	
V		II	2. GIS & GNSS- raster, vector, overlay analysis, waypoints, area & Length calculation	S.D	30	July- December	

PAPER CODE:GEOACOR12P

SEMESTER	HONS/GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
v	HONOURS		1. Remote Sensing & GIS-georeferencing, digitization, preparation of thematic maps 2. Preparation of FCC	S.R M.B	60	July-January	

PAPER CODE:-GEOADSE01T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
V	HONOURS	I	Soil Geography-formation, profile, texture, structure, moisture PH, Organic matter, NPK, Soil erosion, Soil classification	МВ	35	February-May	
v		II	Bio Geography- Biosphere, Eco system, Biome, Eco tone, Niche, trophic structure, Bio-geochemical cycles, Taiga, Tropical and grassland Biome, Conservation of Biodiversity	SDH	40	February-May	

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
V	HONOURS	I	Population dynamics- Concept of demography, population data, population distribution density, growth, classical and modern theories in population distribution and growth	SD	30	February- March	
v	HONOURS	II	Population and development- 1. Fertility, Mortality, Urbanisation, Migration 2. Age-Sex composition, Rural-Urban composition, Human	SDH	30	March-May	
			Development 3. Population Policies, Contemporary issues in population	SD	15	April-May	

PAPERCODE:-GEOADSE03T

PAPER CODE:-GEOACOR13T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
VI	HONOURS	I	Nature of pre-modern Geography- contributions of Greek and Chinese, Arab, Dark age, Dualism in Geography	SD	45	February- March	
VI	HONOURS	II	Foundations of modern Geography and recent trends- concept of Germany, France, Britain, USA, Contributions of Humboldt, Ritter, Ratzel, Richthofen, Vidal de La Blache Quantitative revolution, system approach	SD	45	March-May	

PAPER CODE-GEOACOR14T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
VI	HONOURS	I	Concept of Hazard and Disaster, Vulnerability, preparedness, Hazard mapping	SDH	30	February- March	
VI	HONOURS	II	Hazard specific study- earth quake, land slide, tropical cyclone, river bank erosion, Radioactive fallout	SDH	30	March-May	

PAPERCODE:-GEOACOR14P

SEMESTE	HONS/GENERA	UNI	ΤΟΡΙϹ	TEACHER	NO.OFLECT	DISTRIBUTI	PROJECT/
R	L	Т			UR ES	ON	IFANY
VI	HONOURS		Project report based on any one case study of the following- Thunderstorm, landslide, Flood, River bank erosion, Fire, industrial accident, structural collapse	SDH	60	February- May	

PAPER CODE:-GEOADSE04T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
VI	HONOURS	I	Hydrology- Hydrological cycle, Runoff, Infiltration, evapotranspiration, Ground water, Drainage basin	МВ	40	February- March	
VI	HONOURS	II	Oceanography-ocean floor, Physical and chemical properties of ocean water, salinity, marine resources, sea level change	MB	50	March-May	

PAPER CODE:-GEOADSE06T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
VI	HONOURS	I	Resource and development-concept, classification, utilization, economic growth and development, global scenario of resource depletion, sustainable development	SR	40	February- April	
VI	HONOURS	II	Resource conflict and management- mineral resources, energy resources, energy crisis and future scenario, limits to growth and sustainable use of resources	SR	50	March-May	

GEOGRAPHY GENERAL

PAPER CODE-GEOHMCO1T/GEOMCO1T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT /IFANY
I	MINOR	1	 Internal Structure(Earth) Granite and Basaltic Landforms. Exogenetic& Endogenetoic Forces Fluvial processes Hazards in Indian context 	SD SDH	90	July-August July-November July-August	
I	MINOR	11	 Composition & layering of atmosphere Pressure belts, Jet streams Factors of soil formation Ideal soil profile Eco- system,eco- tone,Niche,successi on,habitat Biomes 	MB SR SDH		July-October July- November-	
						July-November	

PAPER CODE-GEOHM02T/GEOMCO2T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT /IFANY
II	MINOR	1	 Concept of human geography Approaches to human geography 	SD	90	February-May	
	MINOR	II	3. Evolution of human societies 4. Tribes:-	SDH		February-May	
			Eskimo,Mas ai,Maori 5. Population distribution	MB		February-May	
			,density growth 6. Demograph ic transition theory	SR		April-May	

II	MINOR	III	7.	sectors of			
				economy			
			8.	types of	SDH	March-April	
				agriculture	02.1		
			9.	site, situatio			
				n,patterns			
				of rural		April-May	
				settlements	MB	. ,	
			10.	classificatio			
				n of urban			
				settlements			

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTIO N	PROJECT/IF ANY
	MINOR		1. Map scale 2. Map projection	SD		July-August July-	
			3. SOI Topographical	SR	60	November	
			maps 4. Representation of data	MB		July- November	
			(cartograms)	SDH		July-August	

PAPERCODE-GEOHM03T/GEOMC03T

PAPER CODE-GEOHM03P/GEOMCO3P

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT
III	MINOR		1. Construction of Map scale	SD		July-August	
			2. Construction of Map projection	SR	60	July-	
			3. Interpretation of SOI Topographical	МВ		November-	
			maps			July-November	

PAPER CODE-GEOMCO4T

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTIO N	PROJECT/IF ANY
IV	MINOR	I	1.ConceptofEnvironmentalGeography,manenvironmentrelationshipinextreme climate	SD	90	February-May	
			 System approach, ecosystem Holistic environment 	MB SDH		February-May	
IV	MINOR	11	4. Eco-system 1. Environmental problems and management	SDH		February-May	
			 & Soil erosion Environmental programmes and policies 	SR		February-May	
			4. New environmental policy of India	SD		March-April	

Multi-disciplinary course PAPER CODE:-GEOMD-01M

SEMESTER	HONS/ GENERAL	UNIT	ΤΟΡΙϹ	TEACHER	NO.OF LECTURES	DISTRIBUTION	PROJECT/IF ANY
	MAJOR/ MINOR	I	 concept of projection classification of projection,UTM simple conical projection 	SD SR SDH	15	Feb-Dec	
	MAJOR/ MINOR	11	4. Concept of surveying:- Dumpy level,theodolite, total station, GNSS	SDH	15	Feb-Dec	
			 bearing,WGS-84 traverse survey using smart phone GNSS application 	МВ			
	MAJOR/ MINOR	111	 types of RS satellites,IRS & landsat missions FCCs,supervised image classification GIS data types:- Raster & Vector Attribute tables & overlay Identification of land use/land cover from FCCs Change detection of river bank from multi-dated 	MB SD MB SDH	15	Feb-Dec	

TENTATIVESCHEDULEOFEXAMINATION

SESSION-2024-25 SEMESTER/YEAR HONS/GENERAL INTERNALASSESSMENT UNIVERSITYEXAM MAJOR/MINOR First exam I. 2nd week of September January 2025 2024 Second exam 2nd week of November2024 MAJOR/MINOR П First exam 2nd week of March2024 July 2025 Second exam 2nd week of May 2025 Ш MAJOR/MINOR First exam 1sTweek of September 2024 January 2025 Second exam 1stweek of November2024 IV MAJOR/MINOR First exam 2nd week of March2025 July 2025 Second exam 2ndweekof May 2025 V HONS/GENERAL First exam 1ST week of September 2024 January 2025 Second exam 1st week of

HONS/GENERAL

VI

November 2024

First exam 2nd week of March2025

Second exam 2nd week of May 2025

July 2025