

DEPT. OF GEOGRAPHY, GOUR MAHAVIDYALAYA
Syllabus Distribution/ Curriculum Plan of UG Geography Honours (CBCS)
SESSION: 2020-2021
ODD SEMESTER (I, III & V) (July, 2020 to Dec, 2020)
SEMESTER-I (HONS)

SEMESTER-I						
Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Core (DC) -1	DC 1A: Geotectonics and Geomorphology (Theory)	1	Earth's tectonic and structural evolution and geological time scale	ST	July	04
		2	Earth's interior with special reference to seismology; Isostasy: theory of Airy and Pratt	ST	August	04
		3	Mechanism of plate tectonics and resultant landforms, origin and types of Folds and Faults and consequent landforms	PD	July	05
		1	Fundamental concepts in Geomorphology; Denudation processes (weathering, Mass movement and erosion) and resultant landforms, Models on landscape evolution: Views of Davis, Penck, King and Hack	PG DM PG	July - august	15
		2	Development of river network and landforms on uniclinal and folded structures; Slope development and evolution of slope (Davis and King)	SG PD	July August	02 04
		3	Surface and subsurface flow in Karst region, fluvial processes and landforms, glacial and fluvio-glacial processes and landforms, aeolian and fluvial-aeolian processes and landforms	SP	July - Aug	15
	DC 1B: (Practical)	1	Relief profile analysis (representative profile, serial, composite, superimposed, projected, long and cross profile)	PG	July - august	10
		2	Geological maps: Horizontal, Uniclinal and Folded structures	ST	Aug - Sept	10
		3	Identification of rocks and minerals (megascopic) (Basalt, granite, gneiss, sandstone, quartzite, limestone, mica, talc, calcite and feldspar)	DM	Aug-Sept	06
	Discipline Core (DC) -2	DC 2A Cartographic Techniques (Theory)	1	Concept and application of scale: Plain, comparative, diagonal and Positive Vernier	SP	Aug - Sept
2			Coordinate systems and Map: Grid, concept of geoid, spheroid, rectangular and geographical coordinate system, concept of map, classification of map, components of a map	ST	August	04
3			Bearing: Magnetic and true, whole-circle and quadrantal	PD		
4			Map projections: Classification, properties and uses; Concept and significance of UTM Projection.	PG & SG	Aug- Sep	04

		5	Basic concepts of surveying and levelling: Prismatic compass, Dumpy level, theodolite, Abney level and Clinometer.	ST PD SP	August October	04 04
		6	Survey of India topographical maps: Reference scheme of old and open series. Information on the margin of maps	DM	Aug-Oct	04
	DC 2B: Practical	1	Scale conversion: Statement, RF, Graphical (Linear, Diagonal, Positive vernier; enlargement and reduction of scale)	SP	Sept - Nov	24
		2	Construction of projections: Polar Zenithal Stereographic, Simple conical with standard parallels, Bonne's, Cylindrical Equal Area and Mercator's	PG & SG	aug-sep	12
		3	Surveying: Prismatic compass (closed traverse), dumpy level (along a line), and theodolite (base accessible and inaccessible with same vertical plain	ST, PD & SP	Aug - Sept	04 02

Note: ST= Syfujjaman Tarafder, SP= Satyajit Paul, PD= Prabir Das, SG= Sanjay Ghosh, DM= Dipankar Majumder, PG= Paban Ghosh.

SEMESTER-III						
Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Core (DC) -5	DC5 A Climatology (Theory)	1	Structure and composition of the atmosphere, Insolation and heat budget	ST	July	04
		2	Horizontal and vertical distribution of temperature, concept and types of inversion of temperature: its causes and consequences, Ozone layer and greenhouse effects	ST	Aug	06
		3	Condensation and precipitation process and forms; mechanism of precipitation: Bergeron-Findeisen theory, Collision and coalescence theory	ST	Sept	06
		4	Air mass: typology, origin, characteristics and modification; Fronts: warm and cold; frontogenesis and frontolysis; weather: stability and instability; barotropic and baroclinic conditions	SP	July - Aug	15
		5	Circulation in the atmosphere: Planetary winds, jet stream, index cycle; tropical and mid-latitude cyclones; monsoon circulation and mechanism with reference to India	PD	July	10
		6	Climatic classification after Köppen and Thornthwaite	PG	July	6
	DC5 B: (Practical)	1	Measurement of weather elements by Meteorological Instruments: Hygrometer, Maximum-Minimum Thermometer, Barometer, Rain gauge (Simon's)	DM	July	06
		2	Preparation of Climatic Graphs and Charts: Taylor's Climograph, Hythergraph, Star Diagram and Ergograph	SG ST	Sept	04

Discipline Core (D C) -6	DC6 A Statistical Methods in Geography (Theory)	1	Concept and significance of Statistics; Concept of data, sources of data, methods of data collection, discrete and continuous data, population and samples and scales of measurement (nominal, ordinal, interval and ratio)	SP	July	12
		2	Sampling: Need, types, and significance and methods of random sampling	SP	Aug	10
		3	Theoretical distribution: frequency, cumulative frequency, normal and probability distribution	SP	Sep	12
		4	Central tendency: Mean, median, mode and other partitioned values	ST	Aug	04
		5	Measures of dispersion: range, quartile deviation, mean deviation, standard deviation; coefficient of variation and coefficient of quartile deviation	ST	Aug - Sep	06
		6	Correlation: Rank correlation, product moment correlation; Regression (linear and nonlinear) and time series analysis (moving average)	PD	Aug-Sep	08
	DC6 B: Practical	1	Construction of histograms and frequency curve; measures of central tendency; computation of mean (arithmetic and geometric), median and mode;	SP	Sept-Nov	18
		2	Measures of dispersions: standard deviation and coefficient of variation	ST	Aug - Sept	05
		3	Computation of correlation (Pearson); Regression and graphical plotting	PD	Sept-Oct	06
Discipline Core (D C) -7	DC7 A Geography of India (Theory)	1	Tectonic and stratigraphic provinces, physiographic divisions	SG	Aug-ep	04
		2	Climate, soil and vegetation: Characteristics and classification	PD	July-Aug	06
		3	Agricultural regions. Green revolution and its consequences; mineral and power resources distribution and utilisation of iron ore, coal, petroleum and gas	PG	August-sept	8
		4	Industrial development: Automobile and information technology	DM	Sept-Oct	04
		5	Regionalisation of India: Physiographic (R. L. Singh), Socio-cultural (Sopher) and Economic (Sengupta)	PD	Sept-Oct	07
		6	Contemporary population issues: Poverty, Illiteracy, Malnutrition and unemployment	SP	Nov	8
	DC7 B Practical	1	Interpretation of Indian daily weather Map: Temperature, pressure, sky condition, wind direction and speed, sea condition and other weather phenomena (Pre-monsoon, Monsoon and Post-monsoon)	ST	Aug - Sept	12

		2	Identification of rocks and minerals: Sandstone, Limestone, Shale, Basalt, Granite, Gneiss, Marble, Quartzite, Conglomerate; Quartz, Chalcopyrite, Feldspar, Galena, Calcite, Haematite, Magnetite, Mica and Talc	SP & PG	Nov	6
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EVEN SEMESTERS (II, IV & VI) (2nd Half; Jan, 2021 to June, 2021)

SEMESTER-II (HONS)

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Core (DC) -3	DC3A Pop and Settlement Geography (Theory)	1	Definition, scope and contents of Population Geography, Source of population Data	SG		
		2	Components of population change. Demographic Transition Theory	PD	Jan-Feb	10
		3	Population distribution and density of Population Policy	PD	Feb-Mar	06
		1	Definition, scope and contents of Settlement Geography	ST	Jan	02
		2	Nature and characteristics of rural settlements, Morphometry	ST	Jan-Feb	02
		3	Census definition (Temporal) and categories	SG		
	DC3B : (Practical)	1	Population data analysis: Decadal growth, population density and Age-sex pyramid	PD	Feb-Mar	08
		2	Spatial Distribution and Interactions: Nearest-Neighbour Analysis (Clerk and Evans) and Rank-Size Rule (Zipf)	ST	April	04
Discipline Core (DC) -4	DC4A Cartograms and Thematic Mapping (Theory)	1	Concepts of rounding, scientific notation, logarithm and antilogarithm, natural and log scales.	ST	Jan	05
		2	Concept, use, geographical data: Line, Bar, Dot and Sphere, Proportional circles, Isopleths and choropleth	PG	Jan	5
		3	Preparation and interpretation. maps, climatological maps, Land Use/land cover maps and Thematic Maps	SP	Jan	06
		4	Application of GIS in thematic mapping, concept of Cadastral Map.	SP	Jan-Feb	06
	DC4B : Practical	1	Cartograms: Proportional squares, pie diagram, proportional divided circle, dots and spheres	PG	Jan-feb	08
		2	Preparation of thematic maps: Choropleth, Isoline and Chorochromatic map	SP	Feb-Mar	08

SEMESTER-IV (HONS)

Typ e	Pape r	Un it	Topic	Teach er	Perio d	Exp No of Class
SEMESTER-IV						
Dis cipl ine Cor e (D C) -8	DC8 A Regi onal Plan ning and Deve lopm ent (The ory)	1	Concept, Types and delineation of regions.	ST	Jan	02
		2	Types of planning, tools and techniques of planning, principles, needs and objectives of regional planning and multi- level planning in India	ST	Jan- Feb	04
		3	Concepts of metropolitan areas and urban agglomerations	ST	Mar	02
		4	Development: Meaning and Concept of regional development with reference to India,	PD	Jan- Feb	03
			Indicators (Economic, social and environmental) of development, growth versus development			04
		5	Growth pole model of Perroux, growth centre model and Cumulative causation (Myrdal) and	PD	Feb- Mar	08
	core periphery (Hirschman, Rostov and Friedman) theories for regional development					
	6	Strategies of regional development with reference to India, Need and measures for balanced development in India, Regional inequality, disparity and diversity	ST	Mar- April	05	
	DC3 B: (Prac tical)	1	Delineation of formal region: Weighted index number	ST	Feb	04
			Delineation of functional region: Gravity Analysis (Reilly's)			
2	Measuring regional disparity: Lorenz curve, Gini Coefficient and Simson's method	PD	Mar- Apr	08		
Dis cipl ine Cor e (D C) -9	DC9 A Econ omic Geog raph y (The ory)	1	Meaning, Concepts and approaches of Economic Geography, concepts of goods, services,	PG	Mar- April	10
			production, exchange and consumption, GATT, OPEC			
			Concept of economic man, theories of choices			
	2	Economic distance, transport costs, Transnational sea-routes, railways and highways with reference to India	PG	Jan	5	
	3	Concept and classification of economic activities, factors affecting location of economic activity with special reference to agriculture (Von Thunen), and industry (Weber).	SP	Jan	06	
	4	Primary activities: Subsistence (paddy) and commercial agriculture (tea), forestry (lumbering), fishing (India: inland and coastal) and mining (coal, iron in India);	DM	Jan	10	
		Secondary activities: Manufacturing (cotton textile and iron and steel), Special economic zones (SEZ) and technology parks (India);	SG			
	Tertiary activities: transport-types and importance, trade (e- commerce) Quaternary and Quinary-concept	SP	Jan	04		
5	Liberalization, privatization, globalization and Indian economy	SP	Jan- Feb	06		

DC9 B: Practical	1	Agricultural Efficiency Analysis: Kendal's Method	ST	Feb	03
	2	Measuring transport accessibility: Konig and Shimbel index	ST	Mar	03
	3	Comparison of spatial industrial development: Location quotient and Geographical association.	SP	Feb	05

Discipline Core (D C) -10	DC 10A Environmental Geography (Theory)	1	Geographers' approach to environmental studies, concept of holistic environment and system approach	SP	Feb	04
		2	Perception of environment in different stages of civilization	SP	Feb-Mar	03
		3	Concept, structure and functions of ecosystem	SG		
		4	Environmental pollution and degradation (Land, water and air), Space-time hierarchy of environmental problems (Local, regional and global)	DM	Feb-Mar	06
		5	Urban environmental issues with special reference to waste management	SP	Mar	03
		6	Environmental programmes and policies - Global, national and local levels	SP	Mar-Apr	04
	DC 10B: Practical	1	Preparation of check-list for Environmental Impact Assessment of an urban / industrial project	PD	Apr-May	04
		2	Determination of soil type by ternary diagram textural plotting	PG	April	4
		3	Quality assessment of water using lab kit: pH and TDS	SP & PG	Apr	05


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