DEPT. OF GEOGRAPHY, GOUR MAHAVIDYALAYA
Syllabus Distribution/ Academic Plan of UG Geography Honours (CBCS)
SESSION: 2022-2023
ODD SEMESTER (I, III & V) (July, 2022 to Dec, 2022)
SEMESTER-I (HONS)

SEMESTER-I (2022-2023)						
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	8
		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: Pra	1	Scale conversion: Statement, RF, Graphical (Linear, Diagonal, Positive vernier; enlargement and reduction of scale)	SP	Sept - Nov	24

	ctic al	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 (HONS) (2022-2023)

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	Sep	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 Co	**DC6 A Statistica**	**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		

re (DC) -6	**l Methods in Geography (Theory)**	**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 (DC) -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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SEMESTER-V

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Core (DC) -11	**DC11 A:** Soil & Bio Geography **(Theory)**	1	Definition and classification (Genetic & USDA) of soil, Factors of soil formation, Physical (structure and texture) and chemical soil properties (pH and NPK)	PG	July-august	8
		2	Origin and profile characteristics of Lateritic, Podzol and Chernozem soils	PG	August - sept	8
		3	Factors and processes of Soil erosion, degradation and mitigation measures	DM	Aug-Sept	04
		1	Definition of Biogeography, Concepts of biosphere, ecosystem, biome, ecotone, community, Concept of ecology, trophic structure, food chain and food web and biodiversity	SP ST	July July - Aug	05 04
		2	Energy flow in ecosystems, Biogeochemical cycles with special reference to carbon dioxide and nitrogen	PD	Sept	05
		3	Geographical extent and characteristic features of Tropical rainforest and Taiga biomes; Causes, consequences of deforestation and management; Wetland: concept and significance	SG	July-Aug	06
	DC11 B: (Practical)	1	Particle size distribution analysis by sieving method	PG & SP	July-Aug	10
		2	Measurement of soil nutrient (NPK) and Soil pH by using soil kit			
			Time series analysis of biogeography data	PD	Aug	07
Discipline Core (DC) -12	**DC12A:** Hydrology and Oceanography **(Theory)**	1	Definition of hydrology; Concept, Characteristics, Significance and Interpretation of Hydrological Cycles	SG	Aug-Sep	06
		2	Definitions and Characteristics of Precipitation, Evaporation, Evapo-Transpiration, Infiltration, Rainfall Recharge Relationship and Runoff Characteristics	DM ST	Aug Aug	04 03
		3	Flood Analysis of a drainage basin, Concept of Micro Watershed Planning, Water Management in Tropical Cities and Rainwater Harvesting	PG	Aug	5
		1	Origin, Characteristics of major Structural and Morphological features of Pacific, Atlantic and Indian Ocean	PD	July-Aug	08

		2	Origin and evolution of coral reefs and atolls; Origin and Classification of oceanic sediments	ST	Sept - Nov	06
		3	Temperature and Salinity characteristics of ocean water and marine resources	SP	Aug	03
	DC12B: Practical	1	Annual Hydrograph analysis Rating curve	DM ST	July July	03 03
		2	Runoff estimation: Float method	SP		
		3	Preparation of temperature-salinity (TS)diagram	PD	Nov	04

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Specific Elective (DSE)-1 **[Optional]**	DSE1A-Remote Sensing and Geographical Information System	1	Concept, Principles, Stages, Types and Methods of RS, types of RS satellites and sensors	PD	July-Aug	08
		2	Sensor resolutions and their applications with reference to IRS and Landsat missions, image referencing schemes and data acquisition; Concept of False Colour Composites from IRS LISS-3 and Landsat TM and OLI data.	PD	Aug-Sept	10
		3	Principles of image interpretation. Preparation of inventories of land use/land cover (LULC) features from satellite images.	SG	Aug - Sep	04
		4	Concepts, Components, Developments, Functions and Advantages of GIS, raster and vector	SP	Aug - Sep	04
		5	Principles of preparing attribute tables, data manipulation and overlay analysis	SP	Sep	04
		6	Principles of GNSS positioning and waypoint collection	SP	Sep	04
	DSE1B-**(Practical)**	1	Geo-referencing of scanned maps/ images and assigning projection	SP	Sep - Nov	06
		2	Digitization: Point, Line & Polygon	SP	Nov	06
			Preparation of thematic maps	SP	Nov	05
	DSE1A - Political Geography (Theor)	1	Nature and scope Political Geography			
		2	Concept of State, Nation and Nation State, Attributes of State – Frontiers, Boundaries, Enclave and exclave, Territory and Sovereignty and Emergence of new states	-		
		3	Geopolitics and geopolitical theories: Heartland and Rimland	-		
		4	Geography of Voting, Geographic Influences on voting pattern and Gerrymandering	-		
		5	Conflicts of resources– Oil, water and emission of greenhouse gases, Inter-state dispute on water resources of India,	-		
		6	Issues of relief, compensation and rehabilitation: with reference to Dams of India	-		
	DSE1B: Practical	1, 2	Index of democracy and autocracy & Failed State Index	-		

		3, 4	Happiness Index & Measuring voting behaviour	-		

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Specific Elective (DSE)-2 **[Optional]**	DSE2A-Fluvial Geomorphology	1	Scope and components of Fluvial Geomorphology; Rivers as a hydro system; Models of channel initiation and network development	PG	Aug-sep	5
		2	Flow measurement and characteristics assessment: Area velocity approach; laminar and turbulent flow	PG	July-aug	2
		3	Fluvial processes and forms; tectonic and modification and interruptions; adjustment with altered state	PG	Aug-sept	5
		4	Morphometric aspects of a drainage basin: Stream ordering (Strahler and Shreve), bifurcation ratio, Sinuosity indices, Hypsometry (percentage hypsometry)	PG	Aug-sept	8
		5	Consequences of Human interventions on fluvial systems	SP	Aug-Sep	04
		6	Processes, management and impact on land use of River bank erosion and river degeneration, Principles and significance of Integrated watershed management	SP	Sep	08
	DSE2B- **(Practical)**	1	1. Stream ordering, Bifurcation ratio, Stream sinuosity indices, Drainage density, Stream frequency and Dissection Index based on Survey of India Toposheet	PG	july-sept	10
	DSE2ASocial and Cultural Geography (Theory)	1	Nature and Scope of Social Geography	ST	July	02
		2	Concept of Space, Social differentiation and stratification; social processes	ST	Aug - Sep	06
		3	Social Categories: Caste, Class, Religion, Race and Gender and their Spatial distribution	ST	Sept - Oct	05
		4	Basis of Social region formation, Evolution of social-cultural regions of India, Social groups, social behaviour and contemporary social issues (dowry, delinquency, child labour, gender discrimination) with special reference to India	ST	Oct - Nov	12
		1	Scope and content of Cultural Geography	PD	July	04
		2	Concepts of Cultural Hearth and Realm, Cultural diffusion, Cultural segregation, cultural diversity	PD	Aug	08
		3	Races and racial groups of the world, Cultural regions of India	PD	Sept	04
	DSE2B: Practical	1	Mapping of composition of social/cultural group of Indian population in any Indian states (district wise) following choropleth technique, bar diagram/proportional divided circle	ST	July - Aug	06
		2	Calculation of Human Poverty Index (HPI)	PD	Oct-Nov	06
		3	Gender parity index	ST	Sept	02

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Skill Enhancement Course (SEC)-1	**SEC1: Geography of Tourism (Theory)**	1	Concept, scope and nature of Geography of Tourism, types of Tourism, Recreation and Leisure Inter-Relations Geographical Parameters of Tourism by Robinson.	ST	July	04
		2	Factors (historical, natural, socio-cultural and economic) influencing tourism, Spatial pattern of tourism	ST	Aug	03
		3	Physical, economic and social impacts of tourism	SP	Aug	03
		4	Environmental laws and tourism: current trends, spatial patterns and recent changes	ST	Sept	02
		5	Recent Trends of Tourism: International and Regional; Domestic (India); Sustainable Tourism, Meeting Incentives Conventions and Exhibitions (MICE), Role of foreign capital and impact of globalisation on tourism	ST	Sept - Nov	06
		6	Tourism Infrastructure, regional dimensions of tourist attraction in India, National Tourism Policy;	PD		

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EVEN SEMESTERS (II, IV & VI) (2nd Half; Jan, 2023 to June, 2023)

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)

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
SEMESTER-IV						
Discipline Core (DC) - 8	**DC8 A Regional Planning and Development (Theory)**	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: (Practical)	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
Discipline Core (DC) - 9	**DC9 A Economic Geography (Theory)**	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
		1	Agricultural Efficiency Analysis: Kendal's Method	ST	Feb	03

	DC9 B: Practical	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 (DC) -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

SEMESTER-VI (HONS) 2022-2023

SEMESTER-VI (2022-2023)						
Type	**Paper**	**Unit**	**Topic**	**Teacher**	**Period**	**Exp No of Class**
Discipline Core (DC) -13	**DC13A: Disaster Management (Theory)**	1	Classification of hazards and disasters approaches to hazard study	S P	Jan-Feb	16
		2	Risk perception and vulnerability assessment, hazard paradigms			
		3	Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.			
		4	Factors, vulnerability, consequences and management of hydrologic disasters (Flood & Drought)	P G	April-may	06
		5	Factors, vulnerability, consequences and management of Geologic disasters (Earthquake & Landslide)			
		6	Factors, vulnerability, consequences and management of Atmospheric disasters (Cyclones)	ST	April-May	04
	DC13B : (Practical)	1	Flood Frequency Analysis (Time series)	SP	Feb-Mar	10
		2	Flood year determination based on peak flow data in reference to danger and extreme danger level	SP		

			Hydrological Drought Analysis: Standardized Precipitation Index (SPI)	PG	Februar y	04
Di sci pli ne Co re (D C) -14	**DC14A: Evolution of Geogra phical Thoug ht (Theor y)**	1	Definition, nature, scope and contents of Geography, Development of Geography and Contributions of Greek Geographers. Roman and Indian geographers; Impact of 'Dark Age' on Geography and Arab contributions	SG DM	Feb	03
		2	Dualism and Dichotomies (General vs. Particular, Physical vs. Human, Regional vs. Systematic, Determinism vs. Possibilism, Idiographic vs. Nomothetic) Transition from Cosmography to Scientific Geography (Contributions of Bernard Varenius and Immanuel Kant);	S T PD	Jan-Feb	10
		3	Evolution of Geographical thoughts after pre-modern phase, contribution of German, French, British and American school of thought, Contributions of Humboldt and Ritter	PD	Apr-May	10
		4	Quantitative Revolution and its impact, behaviouralism, systems approach, radicalism, feminism in geography	ST	May	05
		5	Concept of hypothesis, theory, law and model, Changing concept of space in geography, Geography in the 21st Century	PD		
	DC14B: Practical	1	Hypothesis testing: t test, z test, chi square test (data base computation, testing and inferences)	PD	May-June	12

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Discipline Specific Elective (DSE) [Optional]	**DSE3A: Applied Geomorphology (Theory)**	1	Anthropogenic Geomorphology: Subject and System;			
		2	Human Impact in a Systems Approach; Some Characteristics of Physical Systems, direct and indirect impacts of human activities on Geomorphology (processes and forms)			
		3	Geomorphic impacts of human society; Anthropogenic landforms			
		4	Stages of Intensifying Human Impact on the Landscape: natural, slightly modified, seminatural landscape, Formation of alien landscape over natural landscape and anthropogenic landscapes			
		5	Societal problems and benefits associated with rivers and modification of rivers; damming, water diversion for irrigation purposes, embankment effects and river linking			
		6	Geomorphic impacts on urbanization, resource concentration, resource mining and cropping practices			
	DSE3B: Practical (02)	1	Hypsometric curve and long profile			
		2	Morphological mapping from toposheet			

Discipline Specific Elective (DSE) [Optional]	DSE3A: Human Geography (Theory)	1	Nature, scope, approaches and recent trends; elements of Human Geography	ST	Jan	04
		2	Evolution of humans, concept of race and ethnicity	DM	Jan	03
		3	Space, society and cultural regions (language and religion), Evolution of human societies hunting and food gathering, pastoral nomadism, subsistence farming, industrial and urban societies	ST DM	Feb Feb	02 04
		4	Human adaptation to the environment: Eskimo, Masai, Jarwa, Gaddi, Santhals.	DM	March-Apr	08
		5	Population–Resource regions (Ackerman)	PD	Apr	03
		6	Human population and environment with special reference to development–environment conflict	PD	May	03
	DSE3B: Practical	1	Population Potential and Mean Centre of Population	ST	Feb	02
		2	Computation of Human Development Index (HDI)	PD	Feb-Mar	06

Type	Paper	Unit	Topic	Teacher	Period	Exp No of Class
Skill Enhancement (SEC)	SEC2: Climate Change: Vulnerability and Adaptations (Theory)	1	Scope and trends of subject, Understanding Climate Change with reference to the Geological Time Scale	PD	April	04
		2	Evidences and factors of climate change, GreenHouse Gases and Global Warming	ST	April	04
		3	Electromagnetic spectrum, Atmospheric window, heat balance of the earth	SG	April-May	04
		4	Economic and social impact of climate Change, impacts on Agriculture and Water; Flora and Fauna; Human Health and morbidity	ST		
		5	Global initiatives to climate change mitigation: Kyoto Protocol, Carbon trading, Clean development mechanism, COP, Climate fund	ST	May	04
		6	Climate change vulnerability assessment and adaptive strategies with particular reference to South Asia, IPCC reports, National Action Plan (of India) on Climate Change	SP	Mar-Apr	06
DP4: Field Report (06)	DP4 will focus on preparation of field report on specific topic on Physical or Human Geography			ST, SP, PD, PG	March-June	5 (Field) 20

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