VICTORIA INSTITUTION (COLLEGE)

GEOGRAPHY DEPARTMENT (2018 – 2019)

DR. KABERI BRAHMA (LESSON PLAN: 1+1+1 system)

YR.	PAPER	UNIT	TOPIC	NO. OF LECTURE	SESSION
II (H)	III MOD 6	I	Definition and factors responsible for soil formation.	02	July to Pre Puja
	IV (a) MOD 7	IV	Definition and scope of Political Geography (Landscape school, functional school and Morphological school)	05	
	IV (b) MOD 8		Longitudinal profile by Dumpy level.	06	
	III MOD 6	I	Concept of Dokuchaev Concept of Sibirtzer. Profile characteristics of Laterite, Podzal and Chermozan.	10	Post Puja to Winter Vacation
	IV (a) MOD 7	IV	Political geography of India. Impact of partition on India.	02	
	IV (b) MOD 8		Longitudinal profile by Dumpy level.	04	
	III MOD 6	I	Physical and Chemical properties of Soil.	04	Post Winter Vacation to Test Exam
	IV (a) MOD 7	1V	Impact of partition on India.	02	
	IV (b) MOD 8		Contouring by leveling along three radial lines.		

YR.	PAPER	UNIT	TOPIC	NO. OF LECTURE	SESSION
III (H)	V Mod 10	III	Meghalaya Plateau	03	July to Pre Puja
	V Mod 11	III	Empiricism, Positivism	04	
	VI	II	Edaphic Hazards	03	
	VII Mod 14		Preparation of Standard FCC from Landoat and IRs data, Preparation of land use / Land cover map with interpretation		
	VIII Mod 16	I	Station Model. Ombrothermic Chart		
	V Mod 11	III	Environmental determination, Possibilism		Post puja to Winter Vacation
	VI Mod 12	I	1.1, 1.2, 1.3, 1.4 Concept of hazard, Seasonal climatic hazard, Occasional climatic hazard, Biotic hazard	10	
	VII	I	GIS 1.1, 1.2, 1.3, 1.4 Field Report	10	
	VI Mod 12	II	2.1, 2.2, 2.3, 2.4 Edaphic hazard, geomorphic hazard, tectonic hazard, water related hazard		Post Winter to Text Exam
	VII	I	GIS Field Report		
	VIII Mod 16	I	Rainfall dispersion diagram		

PUBALI GHOSH (LESSON PLAN: 1+1+1 system)

HONOURS
PART – II

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE5	1	NATURE, COMPOSITION & LAYERED STRUCTURE	5	JULY TO PRE PUJA
		FACTORS CONTROLLING INSOLATION	2	
		HEAT BUDGET OF THE ATMOSPHERE	3	
		GREEN HOUSE EFFECT	3	
		IMPORTAMCE OF OZONE LAYER	02	
		GLOBAL ATMOSPHERIC PRESSURE BELTS & THEIR OSCILLATION	4	
		GENERAL WIND CIRCULATION	5	
MODULE5	1	JET STREAM & INDEX CYCLE	7	POST PUJA TO WINTER VACATION
		MONSOON MECHANISM WITH REFERENCE TO JET STREAM	8	
		PROCESSES & FORMS OF CONDENSATION	5	

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE8	1	ANALYSIS OF LAND FORMS AND CORELATION BETWEENPHYSICAL & CULTURAL ELEMENTS UNDER THE HEAD OF – DRAINAGE	10	POST WINTER VACATION TO TEST EXAMINATION

HONOURS
PART – III

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE9	IV	CENSUS DEFINITION & CATAGORIES IN INDIA URBAN MORPHOLOGY CLASSICAL MODELS – BURGEES, HOMER HOYT,HARRIS AND ULLMAN METROPOLITAN CONCEPT CITY – REGION & CONURBATION	03 06 06	JULY TO PRE PUJA
MODULE9	IV	FUNTIONAL CLASSIFICATIONOF CITIES : HARRIS NELSON & MCKENZIE	6	POST PUJA TO WINTER VACATION

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE 10	II	STRUCTURE & PHYSIOGRAPHY DRAINAGE : PENINSULAR ANDEXTRA PENINSULAR CLIMATE REGIONS OF INDIA EDAPHIC REGIONS OF INDIABIOTIC REGIONS OF INDIA	4 4 3 3 3 3 3	JULY TO PRE PUJA
MODULE 10	II	AGRICULTURAL REGIONS(AS PER ICAR)	4	POST PUJA TO TEST EXAMINATION

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE 11	1	GEOGRAPHY & ITS RELATION WITH OTHERDISCIPLINES ENCYCLOPAEDISM, GEOGRAPHICAL IDEAS DURING ANCIENT PERIOD DEVELOPMENT OF GEOGRAPHY DURINGMEDIEVAL PERIOD EMERGENCY OF SCIENTIFICIDEAS IN MODERN GEOGRAPHY	03 04 05 06	JULY TO PRE PUJA
MODULE 11	II	IDIOGRAPHIC AND NOMOTHETIC APPROACHES MAN ENVIRONMENT RELATION LOCATION TIME & SPACE AREAL DIFFERENTIATION AND SPATIAL ORGANIZATION	3 3 4 6 6	POST PUJA TO TEST EXAMINATION

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE 12	1	CONCEPT OF HAZARDS & DISASTER NATURAL, QUASI NATURAL & MAN MADE HAZARDS SEAONAL CLIMATE HAZARDS:- FLOOD – MECHANISM ENVIRONMENTAL IMPACT & MANAGEMENT	2 3 4 4	JULY TO PREPUA
MODULE 12	II	OCCASSIONAL CLIMATE HAZARDS:- HAILSTORM-MECHANISM, ENVIRONMENTAL IMPACT &MANAGEMENT OCCASSIONAL CLIMATE HAZARDS:- TORNADOES-MECHANISM, ENVIRONMENTAL IMPACT &MANAGEMENT BIOTIC HAZARDS: DEFORESTATION & LOSS OFBIO DIVERSITY-IMPACT & CONSERVATION OF BIOTIC RESOURCES	4 4 5	POST PUJA TO TEST EXAMINATION

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE 13	III	CLIMATE CHART	3	JULY TO PRE PUJA
	III	TERNARY DIAGRAM DIAGRAMS WITH DATA ON SOIL PROFILE	3 6	POST PUJA TO TEST EXAMINATION

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
MODULE 16	II	COMPUTATION OF HUMAN DEVELOPMENT INDEX & RANKING OF COUNTRIES / STATES / DISTRICT BASE ON HDI	5	JULY TO PRE PUJA
	II	COMPUTATION OF GENDER DEVELOPMENT INDEX & RANKING OF COUNTRIES / STATES / DISTRICT BASE ON GDI	5	JULY TO PRE PUJA
	II	MEASURES OF SPATICAL & SIZE GLASS DISTRIBUTION: DOMINANT – DISTINCTIVE FUNTIONS MEASURES OF SPATICAL & SIZE GLASS DISRIBUTION: • RANK SIZE RULE MEASURES OF CONCENTRATION: • LORENZ CURVE • LOCATION QUOTIENT	5 3 2 2	POST PUJA TO TEST EXAMINATION

GENERAL
PART-II

PAPER	UNIT	TOPIC	NO. OF LECTURES	SESSION
II MODULE III	1.1	INSOLATION & HEAT BUDGET	4+3=7	JULY TO PRE PUJA
		HORIZONTAL & VERTICAL DISTRIBUTION OF TEMPARATURE & PRESSURE	4+4=8	
		GREEN HOUSE EFFECT	04	
II MODULE III	1.2	MONSOON SYSTEM : ITS ORIGIN & MECHANISM	3+3=06	POST PUJA TO WINTER VACATION
		TROPICAL DISTURBANCES	03	
		THUNDERSTORM & CYCLONE	2+2=04	
MODULE IV		INDUSTRIAL REGIONS OF INDIA	04	POST WINTER VACATION TO TEST EXAMINATION
		HOOGHLY INDUSTRIAL BELT	04	

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
III MODULE V	1.1	CONCEPT OF SCALE	03	
		DRAWING OF LINEAR SCALE(METRIC SYSTEM)	06	JULY TO PRE PUJA
		DRAWING OF LINEAR SCALE(METRIC & CGS SYSTEM)	06	POST PUJA TOWINTER VACATION
		DRAWING OF LINEAR SCALE(CGS SYSTEM)	06	POST WINTER VACATION TO TEST EXAMINATION

GENERAL (PART III)

PAPER	UNIT	TOPIC	NO OF LECTURES	SESSION
IV MODULE VII	1.1	CONCEPT & ATTRIBITION OF LAND	08	JULY TO PRE PUJA
	1.2	OBJECTIVES OF LAND USE	09	
	1.2	PRINCIPLES OF LAND USE	09	
IV MODULE VII	1.3	FACTORS AFFECTING LANDUSE	04	POST PUJA TO TEST EXAMINATION
		FACTORS AFFECTING AGRICULTURAL LAND USE	07	
		FACTORS AFFECTING NON-AGRICULTURAL LAND USE	06	

SASWATI NAYAK (LESSON PLAN: 1+1+1 system)

II Year (Honours)

Year	Paper	Unit	Topic	No of Lectures	Session
Honours 2nd Year	Paper: III	Module:6 Unit:III	Scope and content of Bio-Geography	2	July -Pre Puja
			Concept of Ecology,Ecosystem	3	
			Major natural ecosystems	3	
			Trophic Structure, food chain and food web	4	
	Paper:IVA	Mod:7 Unit:II	Region as a social unit	2	
			Social elements	6	
	Paper:IVB (Practical)	I	Morphometric techniques: relativerelief, Road Density	10	

Year	Paper	Unit	Topic	No of Lectures	Session
Honours: 2nd Year	Paper: III	III	Laws of Thermodynamics	2	Post Puja –Winter Recess
			Energy flow in ecosystem	3	
			Bio-geo-Chemical cycle	6	
	Paper:IVA	II	Social area analysis	2	
			Social ecology	2	
	Paper:IVB(Practical)	I	Slope analysis	4	
		II	Close Traverse Survey	6	

Year	Paper	Unit	Topic	No of Lectures	Session
Honours 2nd Year	Paper: III	III	Concept of biomes	3	Post Winter Recess to Test Examination
			Ecotone and community	2	
			Deforestation: causes & consequences	2	
			Significance of Biodiversity	5	
	Paper:IVA	II	Social groups: Tribal, traditional and Modern	5	
	Paper:IVB(Practical)	I	Interpretation of topo-map: Morphometric analysis	8	
		II	Prismatic Compass Survey	14	

III YEAR (HONOURS

Year	Paper	Unit	Topic	No of Lectures	Session
Honours 3rd Year	Paper: V	Module:9 Unit:II	Definition and characteristics of rural settlement	2	July – Pre Puja
			Site and situation of rural settlement	2	
		Module:10 Unit: I	Nature and types of region	3	
			Regionalization: scale and dimension	4	
	Paper:VI	Module:12 Unit:III	Basic indicators of development	3	
			Economic disparity as constraint of development	4	
	Paper: VII (Practical)	Module:13 Unit:I	Map projection: Concept, Classification and Use	2	
			Simple Conical projection with one Standard parallel	2	
			Polar Zenithal Stereographic Projection	2	
			Cylindrical Equal AreaProjection	2	
			Bonne's projection	2	
	Paper: VIIIA	Module:15 Unit:I	Significance of Statistical techniques in Geography	1	

			Sampling techniques	**2**	
			Frequency distribution	**6**	
			Measures of central tendency	**12**	

Year	**Paper**	**Unit**	**Topic**	**No of Lectures**	**Session**
Honours 3rd Year	**Paper: V**	**Module:9 Unit:II**	**Rural house types with reference to India**	**2**	**Post- Puja to Winter Recess**
			Social segregation in rural India	**2**	
		Module:10 Unit: I	**Physical regional division in India**	**3**	
			Regional socio-economic division of India	**4**	
	Paper:VI	**Module:12 Unit:III**	**Poverty**	**4**	
			Impact of Globalisation	**2**	
	Paper: VII (Practical)	**Module:13 Unit:I**	**Sinusoidal projection**	**2**	
			Poly Conic projection	**2**	
			Mercator"s projection	**2**	
		Module: 14, Unit:II	**Preparation of land use and land cover map using aerial photographs**	**12**	
	Paper: VIIIA	**Module:15 Unit:I**	**Measures of dispersion**	**8**	
			Bi-variate scatter diagram	**6**	
			Co-efficient of correlation	**6**	

Year	Paper	Unit	Topic	No of Lectures	Session
Honours 3rd Year	**Paper:VII**	**Module:13 Unit:I**	**Checking and preparing the laboratory note book**	**8**	**Post Winter Recess to Test Examination**
	Paper:VIII A Paper:II (Practical)	**Module: 14, Unit:II**	**Practicing the land use map from aerial photo**	**4**	
		Module:15	**Time series analysis**	**8**	

PRAKRITI DAS (LESSON PLAN: 1+1+1 system)

Year	Paper	Unit	Topic	No. of lectures	Session
2 Hons	3	Mod5 UnitIV	Weather disturbances & climate classification (tropical & Mid latitude cyclone, Anticyclone, World Climate Classification after Koppen & Thornthwaite	3+3+3+4 = 13	July to Pre-Puja and post-Puja to Winter vacation.
	4B	Mod8 Unit I	Topographical sheet(Introduction, Vegetation)	Practical class 30	post-Winter Vacation to Test examination
	4A	Mod 7 Unit I	Social Geography (Definition, Evolution, Approaches, Structure, Process Pattern, Space, Well being)	2+3+3+4 =12	July to Pre-Puja
		Unit III Unit IV	Cultural Geog (Concept, Region, Landscape, Assimilation, Integration, Diffusion, Mackinder and Spykman	2+3+3+4 = 12	post-Puja to Winter vacation.
	4B	Unit I	Topographical sheet (Settlement, Transport)	Practical class 30	post-Winter Vacation to Test examination

Year	Paper	Unit	Topic	No. of lectures	Session
3 Hons	5	Mod 9 Unit II	Demographic attributes(fertility, mortality, morbidity, migration)	5+4+2+2 = 13	July to Pre-Puja
		Mod 10 Unit I & II	Malthus, Marx, Demographic Transition Model, Population resource region. Region, Gujarat, Kerala.	2+3+3+3 = 11	post-Puja to Test examination
	6	Mod II Unit IV	Structuralism, Quantitative Revolution, Radicalism, Humanistic & Behaviouralism	2+4+3+4 = 13	July to Pre-Puja
		Mod 12 Unit IV	Human development in 3rd world (Human & Gender development, social inequality: caste & religion fundamentalism	2+3+4+3 = 12	post-Puja to Test examination and

			Gender bias, Demographic constraint, Sustainable development		July to Pre-Puja
	7	Mod 13, Unit II	Cartograms (choropleth square, dots & sphere, age sex pyramid	Practical class 15	post-Puja to Test examination
	8A	Mod 15 UnitII	Statistics (scatter diagram, regression, coefficient correlation, time series)	Practical class 15	July to Pre-Puja
		Mod 16 Unit I & II	Rating curve, hydrograph, unit hydrograph &questionnaire survey	Practical class 15	post-Puja to Test examination

Year	Paper	Unit	Topic	No. of lectures	Session
General 2	2	Mod III Unit-4.3	Climatic Classification After koppen.	2	July to Pre-Puja
		Mod IV Unit 5.2	Broad physiographic regions With reference to western Himalayas	2	post-Puja to Winter vacation.
		5.4	Regions of India: Planning Regions of India - DVC	2	post-Winter Vacation to Test examination
	3	Mod VI 6.2	Cartograms: Bar graph, Simple & Compound, Proportional Divided circles & choropleth	Practical class 15	July to Pre-Puja
					post-Puja to Winter vacation.
					post-Winter Vacation to Test examination

Year	Paper	Unit	Topic	No. of lectures	Session
General 3	**4**	**Mod VII Unit – 7.4**	**Urban settlement: definition Morphology & functions**	**4**	**July to Pre-Puja**
		Mod IX Unit – 9.2	**Detours index, flow map, Accessibility Maps.**	**10**	**post-Puja to Test examination**

LESSON PLAN FOR CBCS SYSTEM

Semester	Programme	Course and Name of the Paper	Topic	Teacher	No. Of hours
First	Hons	CC – 1 Geotectonics and Geomorphology (Theory)	Earth's tectonic and structural evolution with reference to geological time scale.	PG	3
			Earth's interior with special reference to seismology. Isostasy: Models of Airy, Pratt, and their applicability.	PG	3
			Plate Tectonics as a unified theory of global tectonics: process and landfroms at plate margins and hotspots.	PG	10
			Folds and Faults- origin and types.	PG	4
			Degradational processes: Weathering and resultant landforms.	SN	2.5
			Degradational processes: mass wasting, and resultant landforms.	KB	2.5
			Processes of entrainment, transportation, and deposition by different geomorphic agents. Role	KB	4

			of humans in landfrom development.		
			Development of river network and landforms on uniclinal and folded structures. Surface expression of faults.	KB	7
			Development of river network and landforms on granites,basalts and limestones.	KB	4
			Coastal processes and landfroms.	SN	4
			Glacial and glacio-fluvial processes and landfroms.	KB	4
			Aeolian and fluvio-aeolian processes and landfroms.	KB	4
			Role of time in geomorphology: Schumn and Lichty's model. Models on landscape evolution: Views of Davis, Penk,and Hack. Significance of systems approach.	PD	8
		CC - 1 Geotectonics and Geomorphology Lab (Practical)	Measurement of dip and strike using clinometer.	KB	6
			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, sandstone, conglomerate, slate,phyllite,schist,gneiss, quartzite,marble.	PG	14
			Extraction and interpretation of geomorphic information 1:50K topographical maps of plateau region: Delineation of drainage basins. Construction of relative relief map,	PD	15

			drainage density map (c.5'*5').		
			Construction of relief profiles (superimposed, projected, composite).	PG	5
			Construction of slope map (Wentworth's method), stream ordering (Strahler), and bifurcation ratio on a drainage basin (c.5'*5').	SN	15
			Construction of hypsometric curve and derivation of hypsometric integer of a drainage basin (c.5'*5')from survey of India 1:50K Topographical maps of plateau region.	KB	5

Semester	Programme	Course and Name of the Paper	Topic	Teacher	No. Of hours
First	Hons	CC – 2 Cartographic Techniques (Theory)	Maps: Components and classification.	PG	4
			Concept and application of scales: Plain, comparative,diagonal, and vernier.	PD	8
			Coordinate systems: Polar and rectangular.	SN	6
			Concept of generating globe.	SN	2
			Grids: Angular and linear systems of measurement.	SN	5
			Bearing: Magneting and true, whole-circle and reduced.	PD	5
			Concept of geoid and spheroid with special reference to Everest and WGS-84.	SN	4
			Map projections: Classification, properties and uses.	SN	8

			Concept and significance of UTM projection.	SN	2
			Representation of data using dots, spheres and divided proportional circles.	KB	5
			Representation of data using isopleth, choropleth, and chorochromatic maps.	PG	5
			Survey of India topographical maps: Reference scheme of open and old series. Information on the margin of maps.	PG	6
		CC – 2 Cartographic Techniques Lab (Practical)	Graphical construction of scales: Plain, comparative, diagonal, and vernier.	PD	16
			Construction of projections : Polar Zenithal Stereographic, Simple conic with one standard parallel, Bonne's.	SN	12
			Construction of projections : Cylindrical Equal Area, and Mercator's.	KB	8
			Thematic maps; Proportional squares, Pie diagrams with proportional circles, dots and sphere.	KB	12
			Thematic maps: Choropleth, isopleth, and chorochromatic maps.	PG	12

Semester	Programme	Course and Name of the Paper	Topic	Teacher	No. Of hours
Second	Hons	CC – 3 Human Geography (Theory)	Nature, scope and recent trends. Elements of human geography.	PG	4
			Approaches to Human Geography: resource, locational , landscape, environment.	PG	6
			Concept and classification of race. Ethnicity.	PD	5
			Space, society and cultural regions (language and religion).	PD	5
			Evolution of human societies: Hunting and food gathering, pastoral nomadism , subsistence farming and industrial society.	KB	6
			Human adaptation to environment: Case studies of Eskimos, Masai and Maori.	KB	4
			Population growth and distribution, composition , demographic transition.	PD	5
			Populaion-resource regions(Akerman).	PD	5
			Development-environment conflict.	PG	5
			Types and patterns of rural settlements.	SN	5
			Rural house types in India.	SN	5
			Morphology and hierarchy of urban settlements.	PG	5
		CC - 3 Human Geography	Spatial variations in continent or country level religious compositions by	PG	12

		Lab (Practical)	divided proportional circles.		
			Measuring arithmetic growth rate of population comparing two decadal datasets.	PG	15
			Types of Age-Sex pyramids (progressive, regressive, intermediate and stationary): Graphical representation and analysis.	PD	20
			Nearest neighbor analysis from survey of India 1:50k topographical maps(5'x5').	PG	13

Semester	Programme	Course and Name of the Paper	Topic	Teacher	No. Of hours
Second	Hons	CC – 4 Thematic Mapping and Surveying (Theory)	Concepts of rounding, scientific notation. Logarithm and anti logarithm. Natural and log scales.	SN	4
			Concept of diagrammatic representation of data.	PG	2
			Preparation and interpretation of geological maps.	PD	5
			Preparation and interpretation of weather maps.	PG	5
			Preparation and interpretation of land use land cover maps.	KB	5
			Preparation and interpretation of socio-economic maps.	PG	5
			Principle national agencies producing thematic maps in India:	PD	5

			NATMO ,GSI, NBSSLUP, NHO,NRSC/ Bhuvan , etc.		
			Basic concepts of surveying and survey equipments: Prismatic compass.	SN	5
			Basic concepts of surveying and survey equipments: Dumpy level.	SN	7
			Basic concepts of surveying and survey equipments: Theodolite .	KB	7
			Basic concepts of surveying and survey equipments: Abney level .	KB	5
			Basic concepts of surveying and survey equipments: Laser distance measurer.	KB	5
		CC - 4 Thematic Mapping and Surveying (Practical)	Traverse survey using prismatic compass.	SN	10
			Profile survey using dumpy level.	SN	12
			Height determination of base accessible and inaccessible (same vertical plane method) objects by theodolite .	KB	18
			Interpretation of geological maps with uniclinal structure, folds, unconformity and intrusions	PD	20

Semester	Programme	Course and Name of the Paper	Topic	Teacher	No. Of hours
First	General	CC 1/GE 1 Physical Geography (Theory)	Earth's interior with special reference to seismology	PG	3
			Plate Tectonics as a unified theory of	PG	7

			global tectonics. Formation of major relief features of the ocean floor and continents according to Plate Tectonics		
			Folds and faults: Classification and surface expressions	PG	6
			Degradational processes: Weathering, mass wasting, and resultant landforms	KB	4
			Principal geomorphic agents. Classification and evolution of fluvial, coastal, aeolian, and glacial landforms	KB	12
			Basic models of slope evolution: Decline, replacement, and retreat. Systems approach and its significance in geomorphology	PD	6
			Global hydrological cycle: Its physical and biological role	SN	2
			Run off: Controlling factors. Concept of ecological flow	SN	3
			Drainage basin as a hydrological unit. Principles of watershed management	KB	3
			Physical and chemical properties of ocean water. Distribution and determinants of temperature and salinity	PD	4
			Overview of air-sea interactions. Ocean circulation, wave, and tide	SN	7

			Marine resources: Classification and sustainable utilisation	PD	3
		CC 1/GE 1 Physical Geography Lab (Practical)	Megascopic identification of mineral samples: Bauxite, calcite, chalcopyrite, feldspar, galena, hematite, mica, quartz, talc, tourmaline	PG	8
			Megascopic identification of rock samples: Granite, basalt, laterite, limestone, shale, sandstone, conglomerate, slate, phyllite, schist, gneiss, quartzite	PG	12
			Extraction of physiographic information from Survey of India 1:50k topographical maps of plateau region: Construction and interpretation of relief profiles (superimposed, projected and composite), Construction and interpretation of relative relief map (c. 5'×5')	SS	20
			Extraction of drainage information from Survey of India topographical maps of plateau region: Extraction and interpretation of channel features and drainage patterns, Construction of channel profiles	SS	20

Semester	Programme	Course and Name of the Paper	Topic	Teacher	No. Of hours
Second	General	CC 2/GE 2 Environmental Geography (Theory)	Insolation and Heat Budget. Horizontal and vertical distribution of atmospheric temperature and pressure	PG	5
			Overview of planetary wind systems. Indian Monsoons: Mechanisms and controls	PG	6
			Atmospheric disturbances: Tropical and temperate cyclones. Thunderstorms	PD	7
			Overview of global climatic change: Greenhouse effect. Ozone depletion	PG	5
			Scheme of world climatic classification by Köppen	PD	2
			Factors of soil formation	KB	4
			Soil profile development under different climatic conditions: Laterite, Podsol, and Chernozem	KB	6
			Physical and chemical properties of soils: Texture, structure, pH, salinity, and NPK status	KB	6
			USDA classification of soils. Soil erosion and its management	PD	4
			Ecosystem and Biomes. Distribution and	SN	6

			characteristics of tropical rainforest; Savannah, and hot desert biomes		
			Plant types, occurrence and ecological adaptations: Halophytes, xerophytes, hydrophytes, and mesophytes	SN	5
			Biodiversity: Types, threats and management with special reference to India	SN	4
		CC 2/GE 2 Environmental Geography Lab (Practical)	Interpretation of daily weather map of India (any one): Pre-Monsoon or Monsoon or Post-Monsoon	SS	20
			Construction and interpretation of hythergraph, climograph (G. Taylor) and wind rose (seasonal)	SS	20
			Determination of soil type by ternary diagram textural plotting	SS	10
			Preparation of peoples' biodiversity register	PD	10