Polba Mahavidyalaya

Departmental Lesson Plan 2022 – 2023

Name of the Department: Geography

Name of the Programme: B.A. /B.Sc. (Honours/ General)

Name of the Course: (Subject): B.A. /B.Sc. Geography [Honours/ General]

Period of the Lesson Plan: 1st July 2022 – 30th June 2023

Academic Class. Period	. Paper	Topic to be covere	ed	No of Lectures		Internal Assessment	
		Unit	Topic	/Practic	Teachers		
July 2022 –	SEM-	CC1:	<u>Unit 1:</u>	Earth's tectonic and structural	60	BD	
January	I	GEOTECTONI	Geotectonics	evolution with reference to			. ,
2023)23	CS AND		geological time scale			3rd Week of
		GEOMORPHO LOGY		Earth's interior with special		BD	December
		LUGI		reference to seismology.		l DD	
				Concept of Isostasy : Theories of		BD	1
				Airy and Pratt			
				Plate Tectonics: Processes at		RH	
				constructive, conservative,			
				destructive boundariesand			
			hotspots: resulting landforms				
			<u>Unit II</u>	Degradational processes:		AB	
		Geomorphology	Weathering, mass wasting and				
			resultant landforms				
			Models of landscape evolution:		RD		
				Views of Davis, Penck, and Hack			-
				Slope Development: Concept of Wood		RD	
			Development of river network		RD		
				and landforms on uniclinal and			
				folded structures			
				Types of rocks, mineralogical		RH	
				composition of igneous rocks;			
				Landforms on igneous rockswith			
				special reference to Granite and			
				Basalt			
				Karst landforms: Surface and		RH	
			sub-surface		- KII		
			Glacial and fluvio-glacial		RH		
	CC2: CARTOGRAPH			processes and landforms			1
				Aeolian and fluvio-aeolian		RH	
		0.00	TT1	processes and landforms			and TTI I
		Theory	Maps: Classification and Types.	60	RH	3 rd Week of December	
		CARTOGRAPH		Components of a Map			December

Г	IC	1	T			1
	IC TECHNIQUES		Concept of Scales: Plain,		В	
	AND		Comparative, Diagonal and		D	
	GEOLOGICAL		Vernier			
	MAP STUDY		Coordinate Systems: Polar and		A	
			Rectangular. Concept of Geoid		В	
			and Spheroid. Map			
			Projections: Classification,			
			Properties and Uses. Concept			
			and Significance of			
			UTM Projection			
			Concept of Generating Globe,		A	
			Grids: Angular and Linear		В	
			Systems of Measurement			
			Survey of India Topographical		A	
			Maps: Reference scheme of Old		В	
			and Open series		D	
			Delineation of Drainage Basin	1	R	1
			from Survey of India		D	
			Topographical Map. Concept of		ע	
			Relief, Slope and Stream Order.			
			Types of rocks and minerals.		RH	1
			Characteristics of Granite,		KII	
			Basalt, Dolerite, Pegmatite,			
			Gneiss, Shale, Sandstone, Slate,			
			Marble, Quartzite, Quartz,			
			Feldspar, Mica, Limestone,			
			Calcite, Bauxite, Magnetite,			
			Hematite, Galena			
			Concept of Bedding Plane,		R	
			Unconformity and Non-		D	
			conformity, thickness of Bed,			
			Dip, Throw, Hade, heave			=
		Practical	Construction of Scales: Plain, Comparative, Diagonal and		В	
			Comparative, Diagonal and Vernier		D	
			Construction of Projections:	1	Α.	1
			Polar Zenithal Stereographic,		A	
			Simple Conic with twoStandard		В	
			Parallels, Bonne's and			
			Mercator's	-	. =	4
			Construction and Interpretation of Relief Profiles (Superimposed,		AB+RD	
			Projected and Composite),			
			Preparation of Relative Relief			
			Map, Slope map (Wentworth),			
			and Stream Ordering (Strahler)			
			on a Drainage Basin.	4		4
			Geological Map (Problems		RD	
			related to Horizontal, Uniclinal,			
			Folded and Faulted structure); Drawing of Geological section			
			and Interpretation of the Map.			
		<u>Unit 1:</u>	Nature, composition and layering	60	BD	2 nd Week of
			of the atmosphere,			December
	1		· F · · · · · · · · · · · · · · · · · ·			

SEN	M- CC5:	Elements of the	Insolation: controlling factors.		BD	
III	CLIMATOLOG	Atmosphere	Heat budget of the atmosphere.			
	Y		Temperature: horizontal and		BD	-
			vertical distribution. Inversion of			
			temperature: types, causes and			
			consequences. Greenhouse effect and		RH	-
			importance of ozone layer			
		<u>Unit II</u> Atmospheric	Condensation: Processes and		RD	
		Phenomena,	forms. Mechanism of precipitation: Bergeron-			
		Climate	Findeisen theory, collision and			
		Change and Climatic	coalescence. Forms of			
		Classification	precipitation. Air mass: Typology, origin,		RD	-
			characteristics and modification.		KD	
			Fronts: warm and cold;		RD	
			frontogenesis and frontolysis.		RD	-
			Weather: stability and instability; barotropic and baroclinic		KD	
			conditions.			
			Circulation in the atmosphere:		RH	
			Planetary winds, jet stream and monsoons			
			Tropical and mid-latitude		RH	1
			cyclones			
			Evidences and causes of climate		AB	
			change Climatic classification after		AB	-
			Köppen, Thornthwaite (1948)		112	
	CC6:	Unit-1:Theory	Importance and significance of	60	AB	2 nd Week of
	STATISTICAL		Statistics in Geography. Discrete and continuous data, population			December
	METHODS IN		and samples, scales of			
	GEOGRAPHY		measurement (nominal, ordinal,			
			interval and ratio), sourcesof data Collection of data and formation		AB	-
			of statistical tables			
			Sampling: Need, types, and		RD	
			significance and methods of random sampling			
			Distribution: frequency,		RD	
			cumulative frequency			
		Hait 2.Th access			RH	-
		Unit-2:Theory	Central tendency: Mean, median, mode, partition values		KH	
			Measures of dispersion range,		RH	1
			mean deviation, standard			
			deviation, coefficient of variation		RH	-
			Association and correlation: Rank correlation, product		KII	
			moment correlation			_
			Linear Regression and time series		RH	
		Practical	analysis		BD	-
		Tractical	Construction of data matrix with each row representing an aerial		עע	
			unit (districts / blocks /mouzas /			

towns) and corresponding columns of relevant attributes. Based on the above, a frequency table, measures of central tendency and dispersionwould be computed and interpreted. Histograms and frequency curve would be propared on the dataset. Based on of the sample set and using two relevant attributes, a scatter diagram and respression line would be plotted and residual from regression would be mapped with a shortinterpretation. CC7: GEOGRAPHY OF INDIA OF INDIA CO7: Linil: Geography of Of India Climate, soil and vegetation. Characteristics and classification. Populations: Distribution, growth, structure and policy Distribution of population by a casts, religion, longuage, ribes. Agricultural regions, Green revolution and its consequences Mineral and power resources distribution and unitation of iron orc. coal, perfedeum Industrial development since independence. Regionalisation of India: Views of Spate and Bhatt. SEC-1: COMPUTER BASICS AND COMPU	 					
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CC7: GEOGRAPHY OF INDIA Comparison						
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Structure and policy Distribution of population by race, caste, religion, language, tribes Agricultural regions, Green revolution and its consequences Mineral and power resources distribution and utilisation of iron ore, coal, petroleum Industrial development since independence. Regionalisation of India: Views of Spate and Bhart. Physical perspectives: Physiographic divisions, forest and water resources Population: Growth, distribution and human development Resources: Mining, agriculture and industries Regional Development: Darjeeling Hills and Sundarban Darjeeling Hills and Sundarban AB COMPUTER BASICS AND COMPUTER BASICS AND COMPUTER APPLICATION S S SEC-1: Computation Sorreadsheets: Co		India			RD	
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Population: Growth, distribution and human development Resources: Mining, agriculture and industries Regional Development: Darjeeling Hills and Sundarban SEC-1:		Geography of	Physiographic divisions, forest		RD	
Regional Development: Darjeeling Hills and Sundarban SEC-1: COMPUTER BASICS AND COMPUTER APPLICATION S S S Computation Spreadsheets: Computation, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and			Population: Growth, distribution		RH	
SEC- 1: COMPUTER BASICS AND COMPUTER APPLICATION S S S S Computation Storing and Storing in Spreadsheets: Computation Spr						
COMPUTER BASICS AND COMPUTER APPLICATION S S Computation S Computation Spreadsheets: Computation Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation Correlation, Covariance and			Darjeeling Hills and Sundarban			
COMPUTER APPLICATION Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and			Arithmetic	40		
APPLICATION Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and	BASICS AND				AB	
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Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and			_			
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Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and						
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Derivation of Correlation, Covariance and						
Correlation, Covariance and						
Covariance and						
			1			
regression; Selection						
			regression; Selection			

		of technique and			
		Preparation of Annoted Diagrams and its interpretation:	-	RD	
		Internet Surfing: Generation and	-	AB	
CC11:	Unit 1: Research	Research in Geography: Meaning, types and significance	60	AB	1 st Week of December
METHODOLO	Methodology	Significance of Literature review in research		AB	
WORK		Defining research problem, objectives and hypothesis.		RH	
		Techniques of writing scientific	_	RH	
		references, bibliography (APA			
	<u>Unit II</u> Field Work	Fieldwork in Geographical studies – Role and significance.		RD	
		Selection of study area and objectives. Pre-field			
		Field techniques and tools:	_	RD	
		structured, non-structured).			
		Interview with special reverence to focused group discussions			
		Field techniques and tools: Landscape survey using transects and quadrants,		RH	
		constructing a sketch, photo and video recording.			
		Collection of samples. Preparation of inventory from field data. Post-field		RH	
CC12: REMOTE SENSING AND	Unit-1:Remote Sensing	Definition, Concepts and Principles of Remote Sensing (RS): Types of Air Photo, RS	60	RD	1st Week of December
GIS		EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to		RD	
		Principles of False Colour Composites (FCC) from IRS LISS-III and Landsat Images (ETM+) data: Image Processing, Pre-processing; Enhancement;		AB	
		Principles of image interpretation for Forest, Water		AB	
	Unit-2: GIS & GNSS	Definition and Components of Geographical Information System (GIS) and raster and		RH	
	RESEARCH METHODOLO GY AND FIELD WORK CC12: REMOTE SENSING AND	RESEARCH METHODOLO GY AND FIELD WORK CC12: REMOTE SENSING AND GIS Unit-1:Remote Sensing Unit-2: GIS &	CC11: RESEARCH METHODOLO GY AND FIELD WORK Unit 1: Research Methodology	Interpretation. Preparation of Annoted Diagrams and its interpretation: Scatter diagram and Histogram Internet Surfing: Generation and extraction of information Generation and extraction of information Research in Geography: Meaning, types and significance Significance of Literature review in research Defining research problem, objectives and hypothesis. Research materials and methods Techniques of writing scientific reports: Preparing notes, references, bibliography (APA Style), abstract and keywords Field Work Field work in Geographical studies - Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork Field techniques and tools: Questionmaires (open, closed, structured, non-structured), Interview with special reverence to focused group discussions Field techniques and tools: Landscape survey using transcets and quadrants, constructing a sketch, photo and video recording. Collection of samples. Preparation of inventory from field data. Post-field tasks Constructing a sketch, photo and video recording. Collection of samples. Preparation of inventory from field data. Post-field tasks Constructing a sketch, photo and video recording. Collection of samples. Preparation of inventory from field data. Post-field tasks Constructing a sketch, photo and video recording. Collection of samples. Preparation of inventory from field data. Post-field tasks Constructing a sketch, photo and video recording. Collection of samples. Preparation of inventory from field data. Post-field tasks Constructing a sketch, photo and video recording. Collection of samples. Preparation of inventory from field data. Post-field tasks Constructing a sketch, photo and video recording. Collection of samples. Preparation of Remote Sensing (RS): Types of Air Photo, RS Satellites, sensors and platforms EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS Principl	Interpretation of Annoted Diagrams and its interpretation: Scatter diagram and Histogram Internet Surfing: Generation and extraction of information of Annoted Diagrams and its interpretation: Scatter diagram and Histogram Internet Surfing: Generation and extraction of information of Annoted Diagrams and Histogram Internet Surfing: Generation and extraction of information of Messarch information of Control of Messarch information of Control of Co

T		1		T	_	
			Principles of preparing attribute tables and overlay analysis		RH	
			Principles of GNSS positioning -		BD	1
			Uses and Waypoint Collection Methods			_
			Applications of Geographical		RH	
			Information System in Flood Management and Urban Sprawl			
		Practical	Georeferencing of Scanned Maps		RH	-
			Preparation of FCC using IRS		AB	1
			LISS-III and/or Landsat (ETM+) data			
			Preparation of LULC Map by		AB	1
			Supervised Image Classification (Maximum Likelihood) using IRS			
			LISS-IIIor Landsat (ETM+) data			
			Digitisation of Point. Line and Polygon Features and		RH	
			Preparation of Thematic Map			
			(using bar, pie and choropleth method)			1st Week of
	DSE1: CULTURAL	<u>Unit 1:</u> Cultural	Definition, Scope and Content of Cultural Geography	60	RD	December
	AND SETTLEMENT GEOGRAPHY	AND Geography	Development of Cultural Geography		RD	
					RD	1
			Concept of Cultural Hearth, Realm; Cultural Landscape			
			Cultural Innovation and		RD	
			Diffusion; Diffusion of Major			
			World Religions			
			Cultural Segregation, Cultural		RD	
			Diversity, and Acculturation Major Races of the World:			
			Distribution and Characteristics			_
			Major Races of the World: Distribution and Characteristics		RD	
		<u>Unit II</u>	Scope and Content of Settlement		BD	
		Settlement Geography	Geography			
		эсодгариу	Definition and Characteristics of Rural Settlement		BD	
			Rural Settlements: Site and		BD	
			Situation			_
			Urban Settlements:Census		BD	
			Definition, Urban Outgrowth,			
			Urban Agglomeration		BD	-
			Urban Morphology: Classical Models of Burgess, Hoyt, Harris and Ullman			
			Functional Classification of		BD	
			Cities: Harris and Nelson			
		Unit I		60		

		DOD 4				AB	1st Week of
		DSE 2: POPULATION		Development of Population Geography; Relation between		AB	December
		GEOGRAPHY		Population Geographyand			
		GEOGRAFIII		Demography			
						AB	
				Determinants of Population			
				Dynamics; Concept of Optimum Population			
				Theories of population growth:	1	AB	_
				Malthusian Theory and Marxian			
				Approach, Demographic			
				Transition Model		AB	4
				Distribution, Density and		AD	
				Growth of Population in India			
				since 1951			
			Unit II		-	RH	_
				Population Composition and			
				Characteristics: Age-Sex; Female-Male Ratio			
					1	RH	_
				Measures of Fertility and Mortality			
				Population Composition of		RH	
				India: Rural and Urban,			
				Occupational Structure asper			
				Census of India			
				Migration: Theories, Causes and		RH	
				Types			
				Concept of Human Development	1	RH	
				Index		DII	_
				Population and development:		RH	
				population-resource regions,	-	RH	_
				Population policies in Selected		KII	
				Countries: Sweden and China			
				8.Contemporary Issues in			
				Population: Health and			
				Unemployment			
				Population Composition and]	RH	
				Characteristics: Age-Sex;			
	~			Female-Male Ratio			
February 2023 – June	SEM- 2	CC3: HUMAN	Unit1: Nature and Principles	Nature, scope and recent trends	60	RH	3 rd Week of May
2023 – Julie 2023	_	GEOGRAPHY	and I incipies	of Human Geography Evolution of humans, concept	1	-	- ·······
				of race and ethnicity; Major		BD	
				Racial Groups of the world			
				Space, society and cultural		BD	
				regions (language and religion)]		_
				Concept of Culture, Cultural		BD	
				Diffusion, Convergence,			
				Cultural Realms of the world]		1
			Unit II	Evolution of human societies:		AB	
			Society, Demogra phy and Ekistics	Hunting and gathering, Pastoralnomadism, Subsistence			
	l	<u> </u>	phy and Edistics	a astoramomatism, Subsistence	l .	ı	1

1		1	forming Industrial and		1	
			farming, Industrial and urban societies			
			Human-environment relations with special reference to Arctic and hot desert regions		AB	
			Population growth and distribution, composition; demographic transition		RH	
			Population–resource regions (Ackerman)		RH	
			Human, population and environment relations with		RH	
			special reference to Development-environment conflict			
			Social morphology and rural house types in India		RD	
			Types and patterns of rural settlements		RD	
			Functional Classification of urban settlements		RD	
	CC4: CARTOGRAM	Theory	Concepts of Cartograms and Thematic Maps	60	RH	3 rd Week of May
	S, SURVEY AND		Concept and utility of Isopleths and Choropleth,		RH	
	THEMATIC MAPPING		Concept, utility, and interpretation of: Climograph,		BD	
			Hythergraph and Ergograph Preparation and interpretation	1	BD	_
			of demographic charts and diagrams (Age-Sex Pyramid)			
			Concepts of Bearing: magnetic and true, whole-circle and reduced		AB	
			Basic concepts of surveying and survey equipment: Abneys Level, Clinometer	-	AB	
			Basic concepts of surveying and survey equipment: Prismatic Compass, Dumpy Level, Transit Theodolite		RD	
			Interpretation of Land use and land cover maps		RD	
SEM-	CC8: Regional Planning and	Unit 1: Regional Planning	Concept and Classification of Regions	60	RD	2 nd Week of May
	Development		Types of Planning; Principles and Techniques of Regional Planning		RD	
			Need for Regional Planning; Multilevel Planning in India		RD	
			Metropolitan Concept: Metropolis, Metropolitan		RD	

			Areas,			
			Metropolitan Region			
		Unit II Regional	Development: Meaning,	1	BD	7
		Development	Growth versus Development			
		_	Models for Regional		BD	
			Development: Growth Pole			
			Model for development India		BD	
			Concept of Regional		BD	
			Inequality and Disparity			
			Human Development:		BD	
			Significance, Indicators and			
			Measurement			
			Status of Regional Imbalances		BD	
			in India			
			Strategies for Regional	1	BD	
			Development in India			
			NITI Aayog and its Functions		BD	
	CC9: Economic	Unit 1: Concepts	Meaning and Approaches to	60	RH	2nd Week of
		and Approaches	Economic Geography			May
	Geography		Concepts in Economic	1	RH	7 1
			Geography			
			Factors Influencing Location	1	RH	7
			of Economic Activity			
			Determining Factors of		RH	
			Transport Cost			
		Unit IIEconomic	Concept and Classification of		AB	
		<u>Activities</u>	Economic Activities			
			Location Theories: Von		AB	
			Thünen and Alfred Weber			
			Primary Activities:	-	AB	
			Secondary Activities:	1	AB	
			Manufacturing (Iron and		112	
			Steel in India and			
			Japan, Petrochemical in India			
			and USA)			
			Tertiary Activities: Types of	-	AB	
			Trade and Services		AD	
			Agricultural Systems: Tea		AB	
			Plantation in India and Mixed			
			Farming			
			in Europe			
			Highways: Roles in Economic	†	AB	┥
			Development of India since		1111	
			1990s			
			International Trade Blocs:	1	AB	7
			WTO and OPEC		.115	
	CC10	Theory	Geographers' Approach to	60	RD	2 nd Week of
	CC10:	1 iicui y	Environmental Studies	00	ND.	May
	Environmental		Changes in Perception	1	RD	- Iviay
	Geography			1	BD	
			Ecosystem: Concept,		עע	
			Structure and Functions	4		_
			Environmental Degradation and		BD	
			Pollution: Water and Air	1		_
			Environmental Issues related to		AB	
			Agriculture	4	1.5	4
			Urban Environmental issues		AB	
			related to Waste Management			
I		1		1		-1

	T	T	Company of Transport		RH	
			Concept and Issues related to		KII	
			Bio-diversity Environmental Programs and		RH	_
			Policies on Forest and		KII	
			Wetland: National and Global			
		Practical	Preparation of questionnaire for		RH	
			perception survey on			
			environmental problems			
			Environmental Impact		BD	
			Assessment: Leopold Matrix			
			Quality assessment of		RD	
			soil using field kit: pH			
			and NPK			
			Interpretation of air		AB	
			quality using CPCB /			
	SEC 2	Theory	WBPCB data	40	BD	2nd Week of
	SEC-2: ADVANCED	Theory	Concept of Probability and	40	ББ	May
	SPATIAL		Normal Distribution and their			
	STATISTICAL		Geographical Applications,			
	TECHNIQUES		Skewness (Pearson's Method)		RD,	_
	TECHNIQUES		Differences between Spatial and		RD, RH	
			non-Spatial data, Nearest NeighbourAnalysis			
			Correlation and Regression		RD,	1
			Analysis, t-test, Spearman's Rank		RH	
			Correlation Product Moment			
			Correlation; Linear Regression			
					AB	1
			Time Series Analysis; Smoothing time series by Least Square			
			and/orMoving Average Method			
SEM-	CC13:	Unit 1	Definition,Scope and Content of	60	RD	1st Week of
6	EVOLUTION		Geography;Geographyas a			May
	OF GEOGRAPHIC		Spatial Science Geography in Ancient Period:		RD	1
	AL		Greek and Roman			
	THOUGHTS		Development of Geography in		RD	
			Medieval period:Arabian			
			Development of Mapping and Knowledge about the World		RD	
			Regional			
			Geography in the Age of			
			Explorations			
			Classical Geography in19th		RD	
			Century:Humboldt,Ritter		nn.	
			Quantitative Revolution and its		RD	
		Unit 2	Critique German School of Thought		BD	-
		- Cant 2	French School of Thought		BD	
			American School of Thought		BD	_
			Indian Contribution to		BD]
			Geography			1
			Concept of Determinism,		BD	
			Possibilism and Neo- Determinism			
 1	1	1	~ ****	1	1	1

		Approaches to the study of Geography:Systematic and Regional		BD	
	CC14: Unit-I ASTER	Classification of hazards and disasters	60	RH	1st Week of May
	AGEMEN T	Approaches to hazard study:Risk perception and vulnerability assessment. Hazard paradigms		RH	
		Responses to hazards:Preparedness, trauma and aftermath. Resilience and		RH	
		capacity building Hazards mapping:Data and		RH	
	Unit-II	techniques. Earthquake:Factors, vulnerability, consequences and management		AB	
		Landslide: Factors, vulnerability, consequences and management		AB	
		Cyclone:Factors,vulnerability, consequences and management	-	AB	
		Fire:Factors,vulnerability,conse quences and management	-	AB	
	SE 3: Unit-I OURCE	Resource Geography: Its Importance and relation with other sub-disciplines	60	RD	1st Week of May
GEOC	GRAPHY	Resource: Concept and Classification	-	RD	
		Functional Theory of Resource		RD	
		Problems of Resource Depletion with Special Reference to Forest, Water and Fossil Fuels		AB	
		Resource Conservation: Principles and Methods		AB	
		Concept of Limits to Growth'		AB	
	Unit-II	Distribution and Utilisation of Metallic Mineral Resources in Indian Context: Ironore,		BD	
		Bauxite Distribution and Utilisation of Non-Metallic Mineral Resource sin		BD	
		Indian Context: Mica, Limestone			
		Distribution, Problems and Management of Energy Resource sin		BD	
		Indian Context: Conventional (Coal) and Non-Conventional			
		(Solar) Power resources and problems with reference to Petroleum		RH	
		Contemporary Energy Crisis and Future Scenario	-	RH	-
		Sustainable Resource Development	1	RH	1
	Unit		60	RH	1st Week of May

DSE 4: SOIL AND BIO	Soil Geography	Development and Characteristics of an ideal Soil	RH
GEOGRAPHY		Profile Physical and Chemical	AB
		Properties of Soil with special reference to	
		Texture, Structure, Organic	
		Carbon and pH	
		Concept of Zonal, A zonal and Intra zonal Soil; Formation and	AB
		Profile	
		Characteristics of Laterite and	
		Podsol	A.D.
		Classification of Soil: Russian and Indian(ICAR)	AB
		Soil Degradation and Management	BD
	Unit 2:Bio	Definition and Scope of Bio-	BD
	Geography	geography, Meaning of	
		Biosphere, Ecology, Ecosystem,	
		Environment, Communities,	
		Habitats, Niche, Ecotone and	
		Biotopes	
		Biosphere and Energy: Laws of	BD
		Energy Exchange, Food Chain,	
		Food Web and Energy Flow	
		Bio-Geo Chemical Cycle:	RD
		Carbon, Nitrogen	
		Factors of Plant Growth: Light, Heat, Moisture, Wind,	RD
		Soil andTopography	
		Biomes-Concept and	RD
		Classification; Tropical Rain	
		forest &Temperate Grassland	
		Threat to Biodiversity-Causes,	RD
		Consequences and Conservation	

RH- Dr. Rituparna Hajra

RD- Rajesh Das

AB- Ayan Banerjee

BD- Biswajit Dhara