

**Polba Mahavidyalaya**

**Departmental Lesson Plan 2021 – 2022**

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 : 1<sup>st</sup> July 2021 – 30<sup>th</sup> June 2022

Academic Period	Class.	Paper	Topic to be covered		No of Lectures/Practical	Name of the Teachers	Internal Assessment						
			Unit	Topic									
July 2021 to January 2022	SEM 1	CC 1A: Geomorphology and Cartography	<b>Unit I: Geotectonics and Geomorphology</b>	<b>Weathering: Types and related landforms.</b>	60	MB	3 <sup>rd</sup> Week of December						
				Lithosphere – Internal Structure of Earth based on Seismic Evidence,				MB					
				Plate Tectonics and its associated landforms				RH					
				Landform development in arid regions				RH					
				Landform development in glaciated regions.				RH					
				Development of fluvial landforms				RH					
				Fluvial Cycle of Erosion – Davis and Penck				MB					
				Hydrological Cycle and ground water.				MB					
				<b>Unit II: Scale and Cartography</b>				Linear and Comparative scale	BD				
								Proportional diagrams: Circles and squares	BD				
			Composite bar diagram and age-sex pyramid.					BD					
			Taylor's Climograph and Hythergraph					AB					
				SEM 3				CC1C: Human Geography and Map Study	<b>Unit I: Human Geography</b>	Definition, Nature, Major Subfields, Contemporary Relevance	60	RH	2 <sup>nd</sup> Week of December
										Space and Society: Cultural Regions; Race; Religion and Language			
Eskimos: Adjustment to the environment and recent development	RH												
Population: Population Growth and Demographic Transition Theory	RH												

				Types of population migration with reference to India		RH	2 <sup>nd</sup> Week of December
				World Population Distribution and Composition (Age, Gender and Literacy)		RH	
				Settlements: Types and Patterns of Rural Settlements;		MB	
				Classification of Urban Settlements; Functional classification of towns		MB	
		Unit II: Map Projection and Map interpretation		Simple Conical projection with one standard parallel		BD	
				Cylindrical Equal Area projection		BD	
				Interpretation of Topographical maps: Relation between Physiography, drainage and settlement		AB	
				Interpretation of weather maps		MB	
		SEC 1: COMPUTER BASICS AND COMPUTER APPLICATION	Theory	Numbering Systems; Binary Arithmetic	60	AB	
				Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.		AB	
				Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram		MB	
				Internet Surfing: Generation and extraction of information		AB	
SEM 5	DSE-1A: Economic Geography	Economic Geography		Scope and Content of Economic Geography	60	RH	1 <sup>st</sup> Week of December
				Von Thunen Theory of Land Use		RH	
				Theory of Industrial Location - Weber		RH	
				Types of Farming		RH	
				Intensive Subsistence Farming and Plantation Agriculture		RH	
				Commercial Fishing		BD	
				Mining (iron ore, coal and petroleum)		AB	
				Cotton Textile Industry, Petro-Chemical Industry		MB	
			Field Report	Report writing based on field survey		AB	
	SEC 3: Field Techniques And Survey Based Project Report			Significance of Field Work in Geographical Studies	40	RH	1 <sup>st</sup> Week of December
				Selection of Study Area – Rural or Urban		RH	

				<p><b>Field Techniques – Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant)</b></p> <p><b>Questionnaires (Open/ Closed / Structured / Non-Structured)</b></p> <p><b>Interview with Special Focus on Focused Group Discussions</b></p> <p><b>Designing the Field Report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report</b></p> <p><b>Practical field report</b></p>		<p><b>MB</b></p> <p><b>BD</b></p> <p><b>BD</b></p> <p><b>AB</b></p> <p><b>AB</b></p>	
February 2022 to June 2022	SEM 2	CC 1B: Climatology, Soil and Biogeography	Theory	<p><b>Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere.</b></p>	60	<b>BD</b>	3 <sup>rd</sup> Week of May
				<p><b>Horizontal and vertical distribution of temperature</b></p>		<b>BD</b>	
				<p><b>Forms of precipitation and types of rainfall</b></p>		<b>RH</b>	
				<p><b>Tropical and Temperate Cyclones, Climatic Classification (Koppen)</b></p>		<b>RH</b>	
				<p><b>Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)</b></p>		<b>RD</b>	
				<p><b>Soil forming factors. Soil formation (Podzol and Laterite)</b></p>		<b>RD</b>	
				<p><b>Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem. Environment, Ecotone, Communities, Habitats and Biotopes</b></p>		<b>AB</b>	
	<p><b>Biomes: Rainforest and Temperate Grassland.</b></p>	<b>AB</b>					
	SEM 4	CC1D: ENVIRONMENTAL GEOGRAPHY	Theory	<p><b>Concepts and approaches of Environmental Geography:</b></p>	60	<b>RH</b>	2 <sup>nd</sup> Week of May
				<p><b>Concept, Structure and Functions of Ecosystem</b></p>		<b>RH</b>	
				<p><b>Human-Environment Relationship in Mountain and Coastal Regions</b></p>		<b>BD</b>	
				<p><b>Environmental Problems and Management: Air and Water Pollution</b></p>		<b>BD</b>	
				<p><b>Environmental Programmes and Policies: MAB</b></p>		<b>RD</b>	
				<p><b>Forest and Wild Life Policy of India</b></p>		<b>RD</b>	
<p><b>Environmental Movements in India: Chipko</b></p>				<b>AB</b>			
<p><b>Wetlands: Ramsar Sites in India</b></p>	<b>AB</b>						

			Practical	Questionnaire for Air Pollution and Health Perception Survey		RH	
				Soil Test using Kit : pH and Organic Carbon		AB,RD	
				Mapping of Wetlands from Topographical Sheet		BD	
				Mapping of Forest from Topographical Sheet		BD	
		SEC 2: REGIONAL PLANNING AND DEVELOPMENT		Definition of Region; Types of Regions	40	RD	2 <sup>nd</sup> Week of May
				Regional Planning – Concept and Significance		RD	
				Human Development Index – Concept and Indicators		BD	
				Agricultural Development in India Since 1970s		BD	
				Industrial Development in India Since 1990s		RH	
				Planning Region: DVC		RH	
				Preparation of Questionnaire on Sanitation and Health		AB	
				Preparation of Questionnaire on Waste Management		AB	
SEM 6	DSE-1B: ENVIRONMENTAL GEOGRAPHY	THEORY	Meaning and Classification of Hazards and Disasters.	60	RH	1 <sup>st</sup> Week of May	
			Approaches to hazard study: Risk perception and vulnerability assessment		RH		
			Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.		RH		
			Hazard mapping: Data and techniques.		RH		
			Earthquake: Causes, Consequences and Management		AB		
			Landslide: Causes, Consequences and Management		AB		
			Cyclone: Causes, Consequences and Management		AB		
			Flood: Causes, Consequences and Management		AB		
	SEC-4: COLLECTION, MAPING AND INTERRETATION OF PEDALOGICAL DATA	THEORY	Soil Sampling Techniques	40	RD	1 <sup>st</sup> Week of May	
			Representation of Soil Texture Data using Ternary Diagram		RD		
			Estimation of Nitrogen using Soil Kit		AB		
			Estimation of Soil pH using Soil Kit		AB		
			Estimation of Soil Organic Carbon using Soil Kit		AB		
			Analysis and Mapping – pH and Organic Carbon		AB		

RH- Dr. Rituparna Hajra

MB- Dr. Mohona Basu

RD- Rajesh Das

AB- Ayan Banerjee

BD- Biswajit Dhara