

Syllabus Distribution
Department Geography
Malda College
Semester-V(Honours), 2024

Paper	Units	Name of the Teacher 's
DC11A: Soil & Biogeography (Theory)	Part 1: Soil Geography 1. Definition and classification (Genetic & USDA) of soil, Factors of soil formation, Physical (structure and texture) and chemical soil properties (pH and NPK) 2. Origin and profile characteristics of Lateritic, Podzol and Chernozem soils 3. Factors and processes of Soil erosion, degradation and mitigation measures	Sri Mithun Ray
	Part 2: Biogeography 1. Definition of Biogeography, Concepts of biosphere, ecosystem, biome, ecotone, community, ecology, trophic structure, food chain and food web and biodiversity 2. Energy flow in ecosystems, Biogeochemical cycles with special reference to carbon dioxide and nitrogen	Chhanda Biswas
	3.Geographical extent and characteristic features of Tropical rain forest and Taiga biomes; Causes, consequences of deforestation and management; Wetland: concept and significance.	Lamhu Dolma Tamang
DC11B: Soil and Biogeography (Practical)	1. Particle size distribution analysis by sieving method 2. Measurement of soil nutrient (NPK) and Soil pH by using soil ki	Sri Mithun Ray
	3. Time series analysis of biogeography data	Lamhu Dolma Tamang
DC12A: Hydrology and Oceanography (Theory)	Part 1: Hydrology 1. Definition of hydrology; Concept, Characteristics, Significance and Interpretation of Hydrological Cycles	Dr. Avijit Roy
	2.Definitions and Characteristics of Precipitation, Evaporation, Evapo-Transpiration, Infiltration, Rainfall Recharge Relationship and Runoff Characteristics.	Lamhu Dolma Tamang
	3. Flood Analysis of a drainage basin, Concept of Micro Watershed Planning, Water Management in Tropical Cities and Rainwater Harvesting	

	Part 2: Oceanography 1. Origin, Characteristics of major Structural and Morphological features of Pacific, Atlantic and Indian Ocean 2. Origin and evolution of coral reefs and atolls; Origin and Classification of oceanic sediments 3. Temperature and Salinity characteristics of ocean water and marine resources	Dr. Nanigopal Kapasia
DC12B: Hydrology and Oceanography (Practical)	1. Annual Hydrograph analysis and rating curve	Lamhu Dolma Tamang
	2. Runoff estimation: Float method 3. Preparation of temperature-salinity (TS) diagram	Dr. Nanigopal Kapasia
DSE1A: Remote Sensing and GIS (Theory)	Part 1: Remote Sensing 1. Concept, Principles, Stages, Types and Methods of RS, types of RS satellites and sensors . 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. 3. Principles of image interpretation. Preparation of inventories of land use/land cover (LULC) features from satellite images.	Dr. Mosfudar Rahaman
	Part 2: Geographical Information Systems 1. Concepts, Components, Developments, Functions and Advantages of GIS, raster and vector 2. Principles of preparing attribute tables, data manipulation and overlay analysis 3. Principles of GNSS positioning and waypoint collection	Dr. Nanigopal Kapasia
DSE1B: Remote Sensing and GIS (Practical)	1. Geo-referencing of scanned maps/ images and assigning projection 2. Digitization: Point, Line & Polygon	Dr. Mosfudar Rahaman
	3. Preparation of thematic maps	Dr. Nanigopal Kapasia
DSE2A: Social and Cultural Geography (Theory)	Part 1: Social Geography 1. Nature and Scope of Social Geography 2. Concept of Space, Social differentiation and stratification; social processes 3. Social Categories: Caste, Class, Religion, Race and Gender and their Spatial distribution 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	Dr. Avijit Roy

	Part 2: Cultural Geography 1. Scope and content of Cultural Geography 2. Concepts of Cultural Hearth and Realm, Cultural diffusion, Cultural segregation, cultural diversity 3. Races and racial groups of the world, Cultural regions of India	Sri Mithun Ray
DSE2B: Social and Cultural Geography (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	Dr. Avijit Roy
	2. Calculation of Human Poverty Index (HPI) 3. Gender parity index	Sri Mithun Ray
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.	Chhanda Biswas
	2. Factors (historical, natural, socio-cultural and economic) influencing tourism, Spatial pattern of tourism 3. Physical, economic and social impacts of tourism	Dr. Mosfudar Rahaman
	4. Environmental laws and tourism: current trends, spatial patterns and recent changes	Dr. Nanigopal Kapasia
	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 globalization on tourism	Sri Mithun Ray
	6. Tourism Infrastructure, regional dimensions of tourist attraction in India, National Tourism Policy	Lamhu Dolma Tamang