



GOVERNMENT OF WEST BENGAL

DEPARTMENT OF GEOGRAPHY

SHAHID MATANGINI HAZRA GOVT. GENERAL DEGREE COLLEGE FOR WOMEN

Chakerikrishnapur-Kulberia :: Kulberia :: Purba Medinipur 721649



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LESSON PLAN FOR NEP COURSES IN GEOGRAPHY

Semester I & II

SEMESTER I			
Major-I GEOHIMJ101	T: Geotectonics and Geomorphology (Theory)	1. Geological time scale: Tectonic and biological history of Earth; Dating of rocks: absolute and relative dating. Earth's interior structure: Seismological evidence. Isostasy: Models of Airy and Pratt.	Nabendu Sekhar Kar
		2. Continental Drift; Plate Tectonics: Processes along different margins and resulting landforms. Types of Fold and Fault; Sea floor spreading	
		3. Geomorphic processes and resultant forms: Weathering, Mass wasting, River, Glacier and Wind	Ina Dhar Roy Dasgupta
		4. Structural impact on landforms: Drainage and landform development on Horizontal, Homoclinal, Folded and Faulted structure	
		5. Models of landscape evolution: Views of Davis, Penck, King and Hack	
	P: Geotectonics and Geomorphology Practical	1. Characteristics of Rocks and minerals and their identification:	Nabendu Sekhar Kar
		2. Geological Maps: Understanding topography, structure, relation between topography and structure, geological succession and geological history through construction of geological section on Horizontal, Homoclinal, Folded and faulted Structure	Ina Dhar Roy Dasgupta
SEC GEOSEC01	P: Computer Basics and Applications	1. Knowing computer: what is computer, basic application of computer, computer memory, concepts of hardware and software; operating system; running an application, viewing of file, folders and directories,	Nabendu Sekhar Kar



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		creating and renaming of files and folders. 2. Understanding word processing. 3. Using spreadsheet: basics of spreadsheet; manipulation of cells; formulas and functions; editing of spreadsheet, printing of spreadsheet.	
		4. Concept of internet; application of internet; World Wide Web; email. 5. Making a small presentation: MS PowerPoint	Ina Dhar Roy Dasgupta
Minor (Disc.-I)	T: Fundamentals of Earth System Science	1. Geotectonics: Origin of Earth, Earth's interior, Isostasy, Continental drift and Plate tectonics. 2. Geomorphology: Working of processes and landforms developed by weathering, mass wasting, river, glacier and wind. Landscape evolution models of Davis, Penck, King and Hack 3. Hydrology and Oceanography: Hydrological Cycle. Hydrological Parameters: Run off, Infiltration and evapotranspiration. Occurrence and storage of Groundwater. Major relief features of the ocean floor: Pacific, Atlantic and Indian Ocean. Formation of coral reefs. Distribution of Salinity and Temperature in Pacific, Atlantic and Indian Ocean.	Ina Dhar Roy Dasgupta



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		<p>4. Climatology: Composition and layering of the atmosphere. Factors of Insolation, Heat budget of the atmosphere. Horizontal and vertical distribution of temperature. Mechanism and forms of precipitation. Pressure belts and general circulation in the atmosphere. Tropical and mid-latitude cyclones. Monsoon. Climatic classification after Köppen, Thornthwaite</p> <p>5. Soil Geography: Factors of soil formation. Soil profile development in Lateritic, Podzol and Chernozem soils. Physical and chemical properties: soil texture, structure, pH, organic matter and NPK. Principles of soil classification: Genetic and USDA</p>	Nabendu Sekhar Kar
SEMESTER II			
Major-2 GEOHMJ102	P: Cartographic Techniques (Practical)	<p>1. Maps: Classification and types. Components of a map.</p> <p>2. Concept and Construction of scales: Linear, comparative, diagonal and vernier</p> <p>3. Map projections: Classification of map projection.</p> <p>4. Construction, properties and uses of projections: Cylindrical Equal area, Polar Zenithal Stereographic, Simple conical with one standard parallel, Polyconic projection,, Bonne's, and Mercator's. Concept and significance of UTM projection.</p>	Ina Dhar Roy Dasgupta
		<p>5. Basic concepts and principles of surveying. Survey with equipment: Prismatic Compass, Dumpy level, Theodolite, Abney level, Clinometer.</p>	Nabendu Sekhar Kar
SEC GEOSEC02	P: Coastal Management (Practical)	<p>1. Components of a coastal zone. Coastal morphodynamic variables</p>	Nabendu Sekhar Kar