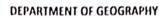
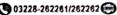
GOVERNMENT OF WEST BENGAL







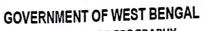






LESSON PLAN FOR NEP COURSES IN GEOGRAPHY Semester I & II

SEMESTER			
Major-1 GEOHMJ101	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	
· ·	7	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	
The sage	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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	ege@gmail.com/ principal@			
		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	Value.
Minor (DiscI)	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 Salinity and Temperature in Pacific, Atlantic and Indian Ocean.	Ina Dhar Roy Dasgupta	

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		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 midlatitude cyclones. Monsoon. Climatic classification after Köppen, Thornthwaite 5. Soil Geography: Factors or 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	Nabendu Sekhar Kar
SEMESTER Major-2 GEOHMJ102	P: Cartographic Techniques (Practical)	1. Maps: Classification and types. Components of a map. 2. Concept and Construction of scales: Linear, comparative, diagonal and vernier 3. Map projections: Classification of map projection. 4. Construction, properties and uses of projections: Cylindrical Equal area, Polar Zenithal Stereographic, Simple conical with one standard parallel, Polyconic projection,, Bonne's, and	Ina Dhar Roy Dasgupta
SEC GEOSEC02	P: Coastal Management	Mercator's. Concept and significance of UTM projection. 5. Basic concepts and principles of surveying. Survey with equipment: Prismatic Compass, Dumpy level, Theodolite, Abney level, Clinometer. 1. Components of a coastal zone. Coastal morphodynamic variables	Nabendu Sekhar Kar Nabendu Sekhar Kar