



GOVERNMENT OF WEST BENGAL

DEPARTMENT OF GEOGRAPHY

SHAHID MATANGINI HAZRA GOVT. GENERAL DEGREE COLLEGE FOR WOMEN

Chaksrikrishnapur-Kulberia :: Kulberia :: Purba Medinipur 721649



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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 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</p> | Nabendu Sekhar Kar    |
| <b>SEMESTER II</b>   |  |  |                       |
| Major-2<br>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<br>GEOSEC02      | P: Coastal Management (Practical)      | <p>1. Components of a coastal zone. Coastal morphodynamic variables</p>  | Nabendu Sekhar Kar    |



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|                                     |                           | <p>and their role in evolution of coastal forms.</p> <p>2. Environmental impacts and management of mining, oil exploration, salt manufacturing, land reclamation and tourism.</p> <p>3. Coastal hazards and their management using structural and non-structural measures: Erosion, flood, sand encroachment, dune degeneration, estuarine sedimentation and pollution</p> <p>4. Principles of Coastal Zone Management. Exclusive Economic Zone and ICZM</p> <p>5. Coastal Regulation Zones with reference to India (2018-2019).<br/>[AN ASSIGNMENT TO BE SUBMITTED ON ANY OF THE ABOVE TOPIC]</p> |                    |
| <p>Minor (Disc.-II)<br/>GEOM102</p> | <p>T: Human Geography</p> | <p>1. Definition, Nature, Major Subfields, Contemporary Relevance.</p> <p>2. Space and Society: Cultural Regions; Race; Religion and Language</p>  | Nabendu Sekhar Kar |
|                                     |                           | <p>3. Population: Population Growth and Demographic Transition Theory.</p> <p>4. World Population Distribution and Composition (Age, Gender and Literacy).</p> <p>5. Settlements: Types and Patterns of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization</p>  | Nabendu Sekhar Kar |