

GEOG-508 INTEGRATED WATERSHED MANAGEMENT

BLOCK-1 CONCEPTUAL BASE

UNIT: 1 Watershed as a Natural Unit

UNIT: 2 Concept, Scope and Significance: Approaches of Watershed Management

BLOCK-2 ECOSYSTEM & ENVIRONMENT

UNIT: 3 Ecosystem and Energy Environment: Land Use Pattern, Natural Resource Appraisal and Development

UNIT: 4 Ecological Processes and Ecosystem: Agro-Ecosystem, forest Ecosystem, River Ecosystem

UNIT: 5 Hydrological Cycle; Energy Analysis and Energy Budget of the watershed

BLOCK-3 ENVIRONMENTAL STATUS

UNIT: 6 Natural Resource Appraisal & Development

UNIT: 7 Environmental Status and Hazards: Environmental Health Status: Physical properties (Viz: Temperature, Rainfall, Soil etc.)

UNIT: 8 Human Habitat of the Watershed; Impact of Environmental and Anthropogenic Interferences on the Status and Quality of the Watershed

BLOCK-4 WATERSHED DYNAMICS

UNIT: 9 Major Natural Hazards: Landslides, Erosion, Floods, Drought, Sedimentation, Disruption of Hydrological Cycle etc.

UNIT: 10 Functioning of Ecosystem: Impact of Agriculture, Mining and Quarrying, Deforestation, Livestock, Construction of Roads on Ecosystem

UNIT: 11 Functioning of Watershed with Particular reference to Uttarakhand Himalaya

BLOCK-5 WATERSHED MANAGEMENT

UNIT: 12 Environmental Impact Assessment (EIA)

UNIT: 13 Techniques & Methods of Watershed Management

UNIT: 14 Watershed Management Planning, Peoples' Participation and Preparation of Plans