

FIRST SEMESTER

Core Course: DSC-1A: Physical Geography Total Marks: 100

60(Th) + 20(P) + 20(IA)

Total Credit: 6 (Total Number of
Classes: 60)

Unit 1: Field of Geography (5 classes)

- Nature and scope of Geography, Physical Geography and Human Geography: Nature, Contents and Interrelationship
- Earth: Chemical Composition and Interior Structure of the Earth

Unit 2: Basics of Geomorphology (15 classes)

- Types of landform – First order, second order and third order, Forces for landform development - endogenetic and exogenetic, Landform development processes- weathering, erosion, transportation and deposition
- Landform development under different conditions – fluvial, and arid
- Cycle concepts in geomorphology Weathering, Mass Wasting, Cycle of Erosion (Davis and Penck)
- Evolution of Landforms (Erosional and Depositional): Fluvial, and Aeolian

Unit 3: Climatology and Oceanography (15 classes)

- Atmosphere: Composition, Structure and Functions
- Elements of Weather: Temperature, Pressure, Wind and Humidity
- Heat Zones, Atmospheric Pressure Belt and Atmospheric Circulation; Mechanism of Monsoon
- Koppen's Climatic Classification
- Ocean Basin: Major features of the ocean floor; Coral reefs and atolls: types and factors
- Ocean Current and Tides

Unit 4: Practical (12 classes)

- Relief representation through serial profiles, superimposed profiles, composite profiles and Projected profiles.
- Demarcation of basin and representation of basin relief through profiles, interpretation.
- Drawing and analysis of Average Slope Map by Wentworth's Method
- Drawing and interpretation of rainfall-temperature-humidity graph of tropical, sub-tropical and temperate regions/stations.
- Study of weather condition depicted by Indian Weather maps and prediction of weather conditions for next 48hours.