



# UTKAL UNIVERSITY

## Ability Enhancement Compulsory Course-I (AECC-I)

### ENVIRONMENTAL STUDIES

#### SEMESTER – I

#### FOR +3 ARTS, SCIENCE & COMMERCE - 2016

**FULL MARKS: 100**

**TIME: 3 HOURS**

**TIME: 1 HOUR**

**END SEMESTER: 80**

**MID SEMESTER: 20**

#### **Unit - I**

The Environment: The Atmosphere, Hydrosphere, Lithosphere, Biosphere, Ecology, Ecosystem, Biogeochemical Cycle (Carbon Cycle, Nitrogen Cycle).

#### **Unit – II**

Environment Pollution: Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution, Radiation Pollution, Natural Disasters and their Management.

#### **Unit – III**

Population Ecology: Individuals, Species, Pollution, Community, Control Methods of Population, Urbanization and its effects on Society, Communicable Diseases and its Transmission, Non-Communicable Diseases.

#### **Unit- IV**

Environmental Movements in India: Grassroot Environmental movements in India, Role of women, Environmental Movements in Odisha, State Pollution Control Board, Central Pollution Control Board.

#### **Unit – V**

Natural Resources: Conservation of Natural Resources, Management and Conservation of Wildlife, Soil Erosion and Conservation, Environmental Laws: Water Act, 1974, Air Act, 1981, The Wildlife (Protection) Act, 1972, Environment Protection, 1986.

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