

Environmental Science Syllabus

Unit 1: Environment and Pollution

Definition and Scope of Environmental science: Structure, Function and Types of ecosystems. Energy flow in the ecosystems, Ecological Successions, Food chains, Food webs and ecological pyramids. Air, Water, Soil and Noise Pollution. Control measures of pollution.

Unit 2: Nature conservation and environmental management.

Natural resources: Forest, Water, Mineral and Food resources. Energy resources: Renewable and non renewable energy sources. Conservation of natural resources. Urban and Industrial waste and water shed management.

Unit 3: Energy and remote sensing

Sources of Energy : Fossil Fuels, Bio-Energy, Nuclear energy, Wind Energy, Hydroelectricity, Geo thermal, Hydro thermal energy and Solar Energy. Application of Remote sensing in Environmental Studies. Land use, Land cover. Wastelands and Forest Fires.

Unit 4: EIA and Environmental protection .

Concepts and objectives of EIA. EIS and Environmental Inventory. National Environmental Policy Act and EIA guide lines -1994. Climate change, global warming, Acid Rain and ozone layer depletion. Air, Water and Wild Life and Environmental Protection Act. Social Forestry.