

EBO-402

ENVIRONMENTAL BIOLOGY

Unit-I

- Introduction, objectives and sub-divisions
- Factors - Wind and Fire
- Population - Introduction, Influences (Growth and Density), Natality (Birth rate), Mortality (Death rate), Fluctuation, Dispersal.
- Community: Synecology – Phyto-sociological characters and methods of plant community.
- Genecology-Concept of species, Ecotype, Niche.
- Ecosystem-Types, Structure and Function, Energy flow, Productivity, Biogeochemical cycles (Nitrogen and Phosphorus).

Unit-II

- Plant indicators.
- Pollution - Toxic, Acid rain, Green house gases, Ozone layer as a Earth protected umbrella.
- Phytogeography - Flora of India, Major biomes of the world.
- Conservation - Introduction, Endangered species (IUCN categories), Forest research work in India, Wild life sanctuaries in India.
- Environmental Education - Introduction, goals, objectives and guiding principles.