

B. Sc. REGULAR PROGRAMME
ENVIRONMENTAL SCIENCE
(2018-19)
Semester III:UGENS18CR103
Environmental Pollution-I

Credit I:Air Pollution – I

15 hours

- 1.1 Air pollution: concept
- 1.2 Sources of air pollution,
- 1.3 Impacts of major air pollutants (Co, SO_x, NO_x and HC and Particulates) on living and non-living things.
- 1.4 Photochemical Smog
- 1.5 Indoor air pollution

Credit II:Air pollution – II

15 hours

- 2.1 Lapse rate of temperature and atmospheric stability
- 2.2 Temperature inversion
- 2.3 Dispersion of gaseous pollutants
- 2.4 Effects of atmospheric stability on pollutant dispersion
- 2.5 Control of gaseous and particulate pollutants

Credit III:Water Pollution-I

15 hours

- 3.1 Water pollution: concept
- 3.2 Sources of water pollution
- 3.3 Types of water pollutants.
- 3.4. Surface and Ground water pollution
- 3.5 Effects of water pollution on aquatic life, vegetation and human health

Credit IV:Water Pollution- II

15 hours

- 4.1 Water Quality Criteria
- 4.2 Drinking water quality standards
- 4.3 Waste water treatment - Primary, Secondary and Tertiary Treatment
- 4.4 Eutrophication
- 4.5 Lake Acidification, salt water intrusion

Credit V and VI: Laboratory Course

1. Study of sampling techniques.
2. Study of preservation of water samples.
3. Determination of BOD and COD of water sample.
4. Determination of dissolved oxygen of water sample.
5. Determination of Suspended solids of water sample.
6. Determination of dissolved solids of water sample.
7. Determination of total solids of water samples.
8. Determination of Oil & Grease in polluted water.
9. Determination of Free CO₂ in water sample.
10. Determination of Alkalinity in water samples.