B. Sc. REGULAR PROGRAMME
ENVIRONMENTAL SCIENCE
(2018-19)
Semester IV:UGENS18CR104
Environmental Pollution-II

Credit I: Soil Pollution **15 hours**

1.1Soil Pollution: concept and definitions
1.2 Physical, Chemical, Mineralogical and Biological properties of soil
1.3 Sources and types of soil pollution
1.4 Biomagnification and Bioconcentration
1.5 Soil erosion and land degradation

Credit II: Noise Pollution **15 hours**

2.1 Basic physics of sound
2.2 Measurement of noise
2.3 Noise pollution: concept and definitions
2.4 Source of noise pollution and its effects on human health
2.5 Control of noise pollution

Credit III: Radioactive Pollution **15 hours**

3.1 Radioactive pollution: concept and definitions
3.2 Radioactive materials and Radiation hazards
3.3 Sources of radioactive pollutants in our environment
3.4 Effects of radioactive pollutants on plants and animals
3.5 Safety measures at the time of working with radioactive substances

Credit IV: Solid waste and Thermal Pollution **15 hours**

4.1 Solid Waste – Sources and characterization
4.2 Disposal and management of solid wastes
4.3 Thermal pollution: concept and definitions
4.4 Causes, effects and control of thermal pollution
4.5 Health Impacts of thermal pollution on animals and plant

Credit V and VI: Laboratory Course

1. Determination of temperature of soil samples.
2. Determination of pH of soil samples.
3. Determination of conductivity of soil samples.
4. Determination of calcium contentinsoil samples.
5. Determination of magnesium content insoil samples.
6. Determination of chloride content in soil samples.
7. Determination of organic carbonsoil samples.
8. Determination of moisture content in soil samples.
9. The presumptive, confirmatory and completed tests for determination of sewage contamination.
10. Measurement of Noise indices