

**Title: Environmental Audit**

**Eligibility:** Bachelor's degree in any Faculty

**Objectives:** To create awareness of Environment quality

To develop skills in Environmental and Water Auditing

To create manpower in Air and water pollution monitoring

**Course Structure:**The course is equivalent to 4 credits . The course can be run in any of the foursemesters.

## **Syllabus:**

**Environmental Audit:**

**1 credit...**

Preamble, scope and objectives of environmental auditing, applicability of statutory, Environmental statement audit, contents of EA report, Requirements of Rule 14 for Environmental Audit under Environmental protection Act 1986, importance for industries; Concepts of a. Signatory, b. Consumption Audit, c. Pollution audit, d. Hazardous audit, d. Solid waste audit, e. Disposal audit, f. Cost audit, g. Investment audit, h. Voluntary audit.

**Water budget and Water audit :**

**1 credit**

Water input, output, Mass Balance

**Occupational safety :**

**1 credit**

Safety management: General principles of safety management; need for safety humanitarian; economics, legal and social consideration of industrial safety; role of management in industrial safety; safety management principle and practices. Safety and Housekeeping: Typical accidents due to poor housekeeping; disposal of scraps and other trade wastes; Prevention of spillage; marking of aisles. Use of colours as an aid for good housekeeping.

**Air and water pollution monitoring :**

**1 credit**

Basics of air and water pollution, major pollutants, Water analysis for physico-chemical characteristics: pH , Electrical Conductivity, hardness, alkalinity, chloride etc. Air sample analysis: NO<sub>x</sub>, SO<sub>x</sub>, particulate matter etc.

**Methodology:** Lectures supplemented with case studies that may include visits.

**Assessment:** Final assessment by written and group discussion. Skill based assessment will be as per the case study.

