

CS-14: Environmental Science: Understanding the Earth's Ecosystems and Sustainability Objective:

- The primary objective is to introduce students to the fundamental concepts of Environmental Science, including ecosystems, biodiversity, natural resources, pollution, climate change, and sustainability.
- The course aims to raise awareness about pressing environmental challenges faced globally and locally, such as air and water pollution, deforestation, habitat destruction, and climate change.
- Students will become familiar with environmental laws, regulations, and policies at local, national, and international levels, which govern environmental protection and conservation efforts.

Prerequisites:

• A fundamental understanding of basic science subjects.

Unit No.	Торіс	Details
1	Introduction to Environment Science	 Definition Environmental Issues and Challenges Principles and Scope Concepts of Ecology and Ecosystem
2	Environmental Pollution	 Types of Pollution (air, water, soil, noise, etc.) Sources and impact of pollution Mitigation and control measures
3	Climate Change and Global Warming	 Greenhouse effect and its implications Causes and consequences of climate change Sustainable practices to combat global warming

Course Outcome:

- > Students will demonstrate a solid understanding of environmental concepts.
- Students will develop an increased awareness of pressing environmental issues facing the planet today and recognize the interconnections between human activities and the environment.

Reference Books:

- "Environmental Science" by G. Tyler Miller and Scott Spoolman
- > Environmental Impact assessment L W Canter McGraw Hill