

ENV202 Environmental Chemistry

Department of Environmental Science and Engineering - Compulsory Course

Credit: 3 ECTS: 6



Course Description: The course "Chemistry and the Environment" delves into the pivotal role of chemistry in environmental processes and sustainability. It encompasses the study of green chemistry principles, atmospheric chemistry, air and water pollution, soil chemistry, and the environmental chemistry of hazardous wastes. Students will explore the interplay between chemical processes and environmental phenomena, understanding the impact on ecosystems and human health. Through lectures, discussions, and assignments, participants will develop a comprehensive grasp of environmental chemistry and its applications in addressing global challenges.

Course Outcomes:

- Comprehend and apply the 12 Principles of Green Chemistry.
- Analyze and evaluate the chemistry underlying environmental issues.
- Assess the effects of air and water pollutants on human health and the environment.
- Understand soil chemistry and its implications for environmental sustainability.
- Examine the nature, sources, and environmental chemistry of hazardous wastes.
- Apply biochemical concepts to environmental processes and cycles.

