



Agriculture · Environment · Life Sciences

# B.Sc. in Environmental Science



# Curriculum

## Year 1

- Calculus
- Climate Change throughout History
- General Physics
- Principles of Environmental Hydrology
- Learning Methods
- Principles of Ecology
- Environmental Chemistry
- Modelling and Statistics
- Energy resources management
- Environmental Microbiology
- Environmental Soil Science

## Year 2

- Environmental Technologies
- Environmental Analytical Chemistry
- Waste Management
- Research methods/statistics
- Plant Physiology
- Remote Sensing from Satellites and Drones
- Environmental Impact Study
- Environmental Fate of Chemicals
- Environmental Monitoring and Risk Assessment
- Atmospheric Science and Air Pollution
- The Climate System and Global Environmental Change
- Air, Water and Waste Water Treatment

## Year 3

- Senior Year Thesis
- Environmental Ethics, Policy and Legislation
- GIS in Agriculture & the Environment
- Environmental Toxicology
- Sustainable Smart Cities and Living Environment
- Environmental Sustainability and Integrated Systems Analysis
- Health Impact and Risk Assessment
- Internship
- Ecological Agriculture
- Current Issues

The **Bachelor of Science (B.Sc.) in Environmental Science** is an academic program focused on offering students knowledge in environmental science and an appreciation of how this multidisciplinary knowledge can be used to understand contemporary issues.

### Learning Outcomes

Upon successful completion of the Program, the graduates will be able to demonstrate knowledge and critical understanding of:

- The key areas of environmental science, such as climate change and integrated environmental impact analysis
- The techniques used for environmental monitoring
- The use of emerging technologies (remote sensing, drones, sensors and internet of things - IoT) and informatics systems for continuous environmental monitoring

### Career Opportunities

There is an ever-increasing need for environmental scientists as a result of emerging challenges, mainly related to the chain reaction impacts of climate change. Graduates can seek employment at:

- International regulators (eg European Council) and advisory bodies (eg European Environment Agency, World Health Organization)
- Municipalities, regional and national authorities
- Private consulting companies
- Small and medium-sized enterprises active in the field of environment

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