



# **BACHELOR**

## **ENVIRONMENTAL AND WATER ENGINEERING**

**IN COOPERATION WITH BOKU UNIVERSITY**

## Why this study program?

The Bachelor's program in "Environmental and Water Engineering" is essential for addressing contemporary challenges related to climate change, sustainable water resource management, and environmental protection.

**The program has been designed in accordance with the academic standards of BOKU University in Vienna.**

It combines engineering principles with environmental sciences and natural resources, preparing qualified specialists with both theoretical and practical knowledge, oriented toward the labor market and national and European sustainable development priorities.

**Internationally recognized degree**



## Program Description

An interdisciplinary program that combines core engineering concepts with environmental sciences to study the dynamics of water, soil, air, and biodiversity.

The program aims to prepare professionals in the field of sustainable water and natural resource management, pollution reduction, and the design and implementation of technical and nature-based solutions for environmental issues, in line with contemporary standards and principles of sustainable development.

# Graduate Profile / Professional Profile

The graduate of the Bachelor's program in "Environmental and Water Engineering" is a professional prepared to work in the analysis, design, and management of environmental and water systems.

Possesses skills in: Monitoring water, soil, and air quality, Assessing environmental impacts, Pollution management, Implementing national and European standards

Graduates are capable of using engineering and digital tools, contributing to interdisciplinary projects, developing nature-based solutions, and working in the public or private sector or in international organizations, supporting sustainable development and natural resource management.



**Denisa Mehaj**

National Environment Agency

"My studies in Environmental Engineering have equipped me with knowledge of environmental legislation and EIA. At the National Environment Agency, I am engaged in the technical analysis of reports and the assessment of project compliance with legal standards."



**Andi Toska**

Environmental Specialist

"The program offered by UBT has provided me with knowledge of environmental management and legislation. As an environmental specialist, I monitor and report environmental impacts, contributing to sustainable development."



**Odetta Shkurtaj**

National Coastal Agency

"My studies at UBT have equipped me with knowledge of coastal zone management and environmental legislation. At the National Coastal Agency, I am involved in assessing interventions and environmental impacts."



**Arlinda Shehu**

Specialist, National Inspectorate for Territorial Protection

"With a background in environmental sciences and engagement at the National Inspectorate for Territorial Protection, I work on the implementation of environmental standards and sustainable territorial development."

# Key Competencies Acquired

Upon completion of the program, students acquire the following key competencies:

- Management of water supply networks, irrigation systems, and wastewater treatment plants
- Design of technical and nature-based solutions for the rehabilitation of polluted areas and green infrastructure development
- Management of soil, water, chemicals, and waste within the framework of the circular economy and sustainable development
- Preparation of EIA/SEA and Environmental Management Plans (EMP)
- Monitoring environmental parameters, assessing impact and pollutant dispersion, use of environmental models, and implementation of environmental legislation and EU directives.

## STUDY STRUCTURE

### CORE COURSES

Chemistry  
Physics and Meteorology  
Applied Mathematics  
Statistics  
Geology and Hydrology  
Botany  
Ecology  
Hydrobiology and  
Environmental Microbiology

### SPECIALIZED COURSES

Soil Science, Hydraulic  
Engineering, Engineering  
Hydrology, Environmental  
Pollution, Process Engineering,  
Soil and Water Management,  
Circular Economy, Water Quality  
Monitoring, Pollution and Waste  
Management, Environmental Risk  
Assessment and Management,  
Biodiversity Conservation

### ADDITIONAL COURSES

Social Sciences, Spatial Planning,  
Scientific Research,  
Fundamentals of Agricultural  
Production, Geospatial  
Technologies, Field trips and  
practical training

Teaching is conducted through interactive lectures, seminars, practical exercises, laboratory work, and field activities. The programme includes structured laboratory work, research projects, and mandatory professional internship.

## Employment Opportunities

- Public and private sectors as environmental and water engineers, environmental specialists, and project experts.
- Government institutions, environmental agencies, consultancy companies, industries, and water supply and sewerage utilities.
- Infrastructure projects, environmental rehabilitation initiatives, climate change adaptation programmes, and EU-funded projects.
- Universities, research institutes, international organizations, and as environmental policy advisors.

# Program Information

## **Study Level**

First Cycle – Bachelor

## **Academic Degree**

Bachelor in Environmental and Water Engineering

## **Duration**

3 academic years / 6 semesters

## **Credits**

80 ECTS

## **Study Mode**

Full-time

## **Language of Instruction**

Albanian / English

## **Enrollment Quota**

120 students

## **Completion of Studies**

Final comprehensive exam / Bachelor's thesis



# About UBT

The Agricultural University of Tirana was founded on November 1, 1951, and has been located in Kodër Kamëz since 1956. Since its establishment, it has been a pillar of agricultural education and research in Albania.

Today, UBT plays a key role in sustainable agriculture, food safety, and rural development, strengthening international cooperation through strategic partnerships, including with BOKU University in Vienna.



## For more information visit:

[www.ubt.edu.al](http://www.ubt.edu.al)

[info@ubt.edu.al](mailto:info@ubt.edu.al)

Street "Pajsi Vodica" Tiranë

## FURTHER STUDY OPPORTUNITIES (MASTER'S DEGREE)

Graduates may continue to their studies in second-cycle Master's programmes related to environmental engineering, water management, natural resources, environmental sciences, and spatial planning. The programme provides a strong theoretical and practical foundation for pursuing scientific and professional Master's degrees at UBT, other universities in Albania, and European universities, including programmes aligned with those of BOKU Vienna.

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*For life and the future...*