

BACHELOR **ENVIRONMENTAL AND WATER** **ENGINEERING**

IN COOPERATION WITH BOKU VIENNA

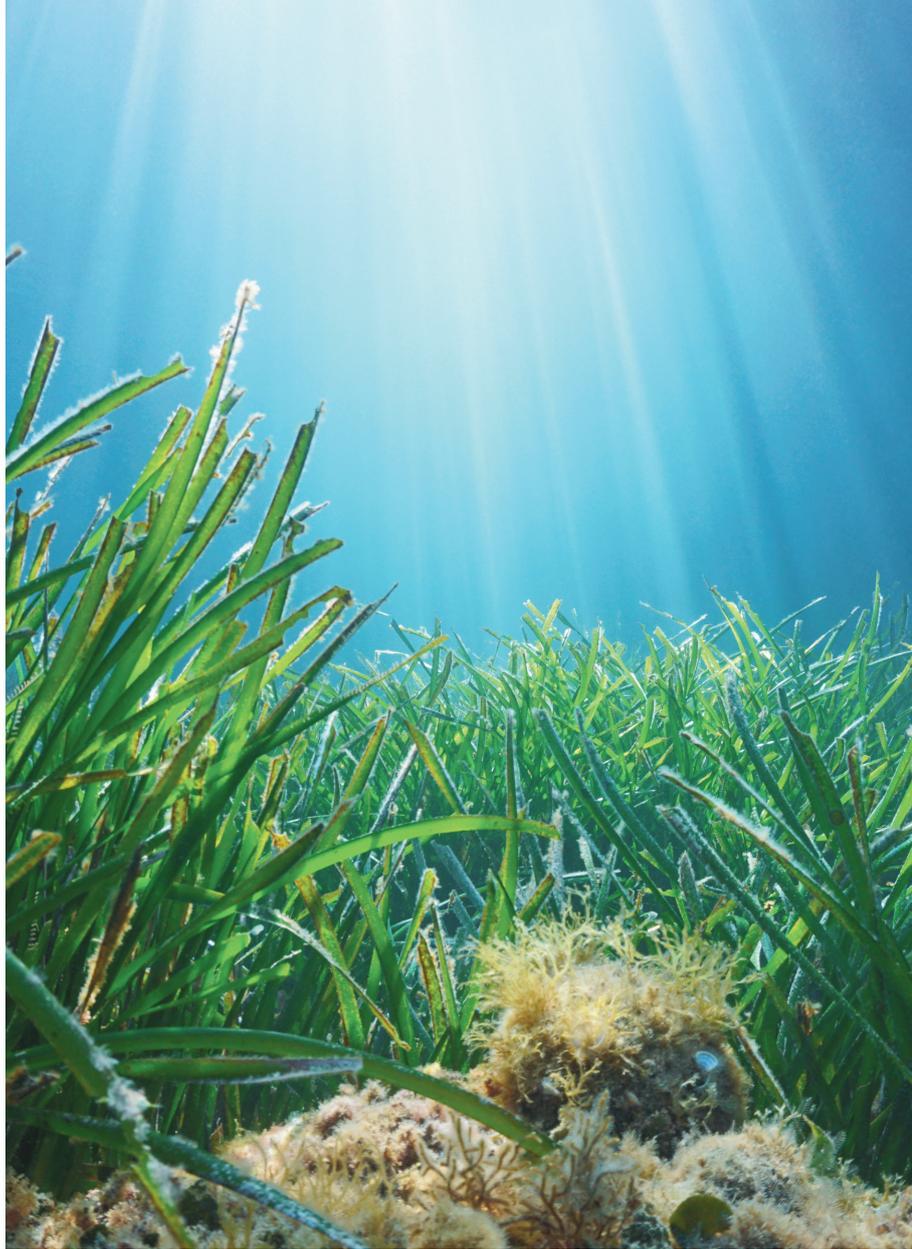
Why this study program?

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 AUT 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 AUT 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 AUT

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, AUT 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

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 AUT, other universities in Albania, and European universities, including programmes aligned with those of BOKU Vienna.

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