



LEFKE AVRUPA ÜNİVERSİTESİ
EUROPEAN UNIVERSITY OF LEFKE

**DEPARTMENT OF
ENVIRONMENTAL PROTECTION & CONTROL**

PROGRAM INFORMATION

www.eul.edu.tr

PROGRAM INFORMATION

Program Name and Degree Awarded

Environmental Protection and Control- Associate Degree

Duration of Studies

2 Years-4 semesters

Total Credits / ECTS

70/120

Language of Instruction

English

Mission and Vision

Mission

To educate and empower skilled Environmental Technicians who are equipped with the scientific knowledge, technical expertise, and ethical responsibility to address environmental challenges. The program aims to prepare graduates to operate pollution control facilities, conduct environmental analyses, support sustainable waste management, and contribute to the enforcement of environmental legislation—serving both public institutions and private enterprises in protecting and improving environmental quality.

Vision

To be a leading vocational program that cultivates environmentally conscious professionals capable of taking initiative in the prevention and control of pollution. By fostering innovation, responsibility, and interdisciplinary competence, the program envisions its graduates playing a vital role in advancing sustainable development and environmental stewardship across sectors, contributing to a cleaner and healthier future for all.

Program Objectives

- Develop Technically Skilled Environmental Technicians

Equip students with the scientific and technical knowledge required to operate treatment facilities, conduct environmental analyses, and manage pollution control systems effectively.

- Promote Environmental Awareness and Responsibility

Instill a strong understanding of ecological principles, sustainability, and the ethical responsibilities of protecting natural resources and public health.

- **Prepare Graduates for Diverse Employment Opportunities**

Enable students to pursue careers in both public institutions and private enterprises, including municipalities, laboratories, hospitals, and environmental consultancy firms.

- **Ensure Competence in Environmental Legislation and Reporting**

Train students to interpret and apply environmental laws and regulations, and to prepare accurate technical documentation and reports for compliance and decision-making.

Program Learning Outcomes

The students of the at the time of graduation are expected to meet the following student outcomes:

- Apply foundational scientific principles in mathematics, physics, and chemistry to analyze and solve environmental problems.
- Conduct laboratory analyses related to environmental chemistry, including water, wastewater, and air quality testing, using appropriate instruments and techniques.
- Understand ecological systems and interactions, and assess the impact of human activities on natural environments.
- Design and operate basic environmental technologies, including solid waste management systems, recycling processes, and treatment facilities.
- Evaluate renewable energy resources and their role in sustainable development and environmental protection.
- Interpret and apply environmental legislation, including national and international laws, regulations, and standards relevant to pollution control and public health.
- Communicate effectively in both Turkish and a foreign language, using technical terminology in environmental contexts and preparing clear reports and documentation.
- Demonstrate awareness of historical and cultural perspectives that influence environmental policies and practices.
- Integrate hydrological and process chemistry knowledge to understand and manage water resources and treatment systems.
- Exhibit professional responsibility and ethical conduct, contributing to sustainable practices in both public institutions and private enterprises.

Curriculum

1st Year Fall

COURSE CODE	COURSE NAME	(T-A-L)C	ECTS	COURSE TYPE
COMV109	MATHEMATICS	(3-0-0)3	6	MANDATORY
COMV111	CHEMISTRY	(3-0-0)3	6	MANDATORY
COMV121	PHYSICS I	(3-0-0)3	6	MANDATORY
UFLE01	FOREIGN LANGUAGE ELECTIVE I (ENGLISH)	(3-0-0)3	3	ELECTIVE
UTEC01	UNIVERSITY ELECTIVE I	(3-0-0)3	5	ELECTIVE
ENPC101	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT	(3-0-0)3	4	MANDATORY

1st Year Spring

COURSE CODE	COURSE NAME	(T-A-L)C	ECTS	COURSE TYPE
UPEC01	UNIVERSITY ELECTIVE I (PHILOSOPHY GROUP)	(3-0-0)3	5	ELECTIVE
UHTC01	HISTORY	(2-0-0)2	2	ELECTIVE
UHTC02	TURKISH	(2-0-0)2	2	ELECTIVE
COMN122	PHYSICS II	(3-0-0)3	5	MANDATORY
ENPC102	ENVIRONMENTAL CHEMISTRY I	(3-0-0)3	7	MANDATORY
UFLE02	FOREIGN LANGUAGE ELECTIVE II (ENGLISH)	(3-0-0)3	3	ELECTIVE
ENPC104	ECOLOGY	(3-0-0)3	6	MANDATORY

2nd Year Fall

COURSE CODE	COURSE NAME	(T-A-L)C	ECTS	COURSE TYPE
ENPC203	ENVIRONMENTAL CHEMISTRY II	(3-0-0)3	6	MANDATORY
ENPC201	SOLID WASTE MANAGEMENT	(3-0-0)3	5	MANDATORY
UFRC01	UNIVERSITY ELECTIVE I	(3-0-0)3	4	ELECTIVE
UFRC02	UNIVERSITY ELECTIVE I	(3-0-0)3	4	ELECTIVE
COMN107	ECONOMICS	(3-0-0)3	6	MANDATORY
OSHE201	OCCUPATIONAL SAFETY AND HEALTH	(3-0-0)3	5	MANDATORY

2nd Year Spring

COURSE CODE	COURSE NAME	(T-A-L)C	ECTS	COURSE TYPE
ENPC202	RENEWABLE ENERGY RESOURCES	(3-0-0)3	6	MANDATORY
ENPC208	RECYCLING TECHNIQUES	(3-0-0)3	6	MANDATORY
ENPC204	ENVIRONMENTAL ENGINEERING PROCESS CHEMISTRY	(2-0-2)3	6	MANDATORY
ENPC206	HYDROLOGY	(3-0-0)3	6	MANDATORY
ENPC210	ENVIRONMENTAL LAW	(3-0-0)3	6	MANDATORY

Laboratory and Equipment Capacity

- Chemistry Laboratory
- Environmental Chemistry Laboratory
- Computer Laboratory

Career Opportunities

Graduates of the Environmental Protection and Control vocational program are well-prepared for a variety of career paths in both the public and private sectors. They can work as Environmental Technicians, conducting pollution monitoring and laboratory analyses, or as operators in wastewater and drinking water treatment facilities. Opportunities also exist in recycling centers, environmental testing laboratories, and municipal environmental services. Roles supporting Environmental Impact Assessment (EIA) reporting, or assisting in environmental health and safety within hospitals, factories, and government institutions are also possible. With growing demand for sustainability, graduates may also contribute to climate action initiatives and renewable energy projects, making them valuable assets in ministries, consultancy firms, and NGOs focused on environmental stewardship.

Contact Information

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Head of Department

Assist. Prof.Dr Saltuk Pirgalioglu

Course Catalogue Descriptions

ENPC102 Environmental Chemistry I: Water and wastewater characteristics; pH, Turbidity, Water quality, water and wastewater quality parameters, alkalinity, acidity, chlorine, fluoride, acid and bases, hardness, role of chemistry in environmental engineering is discussed in this course.

ENPC104 Ecology: Provide background of the ecological concepts including organizations into populations, communities, and ecosystems; interactions between individual organisms and the environment; effect of human impacts on species diversity, community structure and ecosystem stability.

ENPC203 Environmental Chemistry II: Environmental chemistry in Engineering applications, Wastewater, wastewater characteristic, dissolved oxygen, BOD, COD, Nitrogen, Phosphorus, Sulfate, soil chemistry.

ENPC201 Solid Waste Management: Waste generation and management, integrated waste management strategies, solid waste characteristics, collection of solid waste, recycling, computer and other electronic solid waste, composting, incineration, landfilling

ENPC202 Renewable Energy Resources: Definition of energy and sustainable energy, estimation and evaluation of energy resources, environmental effects of energy, geothermal energy, hydropower, solar energy, ocean wave, tide, current, and thermal energy conversion, wind energy

ENPC208 Recycling Techniques: Basic definition of recycling, recovery of recyclable materials from solid waste, development and implementation of materials recovery facilities, equipment for processing of recyclables, public safety and health issues related with recycling, recycling economics

ENPC204 Environmental Engineering Process Chemistry: Calculations related with environmental chemistry; concentration units, hardness calculations, acidity/alkalinity, chemical equilibrium, principles of energy and material balance and application of material balance on environmental engineering unit operations, basic thermodynamic concepts and design equations of ideal reactors (batch, continuously stirred reactor and plug flow reactor are covered during the lecture

ENPC206 Hydrology: Hydrological cycle, precipitation, evaporation, storage and runoff of water, streamflow, groundwater flow, well hydraulics, water pollution, water resource management

ENPC210 Environmental Law: an introduction to and overview of environmental law in the world, examining the historical development of environmental protection from a legal perspective, the key legal tools and techniques that are employed to regulate environmentally harmful activities or to protect species, habitats or ecosystem, and the related enforcement mechanisms.