ENVIRONMENTAL ENGINEERING (EE)

DEGREE TYPE UPON GRADUATION

Bachelor's Degree

DURATION

4 years (8 semesters)

TEACHING LANGUAGE

Romanian

ECTS POINTS

240

PROGRAMME DESCRIPTION

The mission of the Environmental Engineering degree programme is to train specialists in the field of Environmental Engineering, capable of working in public institutions, private companies, scientific research units and even as freelancers, developing their own businesses. The programme's mission, curriculum and research strategy provide graduates of the Environmental Engineering degree programme with competences and qualifications in accordance with the National Register of Qualifications in Higher Education - RNCIS and the National Qualifications Framework.

TUITION

EU citizens: 3900 RON (approx. € 780)

Non-EU citizens: € 2430

ENTRY REQUIREMENTS

Baccalaureate Diploma

REASONS TO CHOOSE THIS PROGRAMME

- high quality education
- practical skills in line with the requirements of economic life
- multiple opportunities for integration into the labour market

CAREER OPPORTUNITIES

- environmental monitoring and protection

- research and development for environmental equipment
- environmental departments in administration and economic agents
- environmental monitoring by private organisations for monitoring environmental quality
- legislative field of environmental protection

PROGRAMME DETAILS

I st YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	**ECTS**	**Type of assessment**	**Subjects**	**ECTS**	**Type of assessment**
Mathematical Analysis	5	E	Thermodynamics	7	E
Physics 1 (Electromagnetic and Optical Phaenomena)	6	E	Elements of Mechanical Engineering II	6	E
Elements of Mechanical Engineering I	6	E	Linear Algebra, Analytical and Differential Geometry	5	E
Computer Programming and Programming Languages	5	E	Chemistry 2 (Organic Chemistry)	6	E
Chemistry 1 (General and Analytical Chemistry)	5	E	Physical Education II	1	V
Physical Education I	1	V	Foreign Language	2	C
Foreign Language	2	C	Optional Course (Scientific Knowledge Theory / History of Scientific Discoveries)	2	V

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

II nd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	**ECTS**	**Type of assessment**	**Subjects**	**ECTS**	**Type of assessment**
Environmental Chemistry I (Chemical Processes in the Environment and Pollution)	4	E	Computer Aided Graphics	4	E
Materials Science and Engineering	4	C	Graphics on Computer	2	V
Fluid Mechanics	5	E	Probability Theory and Mathematical Statistics	4	E
Technical Drawing and Infographics	5	E	Electronics	4	E
Physical Education III	4	E	Environmental Chemistry II (Chemical Pollutants, Decontamination Methods)	5	E
Foreign Language	5	E	Professional Practice	4	V
Optional Subject (Philosophy/ Ethics and Academic Integrity)	1	V	Physical Education IV	1	V
Environmental Chemistry I (Chemical Processes in the Environment and Pollution)	2	C	Foreign Language	2	C
Materials Science and Engineering	1	V	Optional Course (Water Treatment and Purification/Physical Processes in Condensed State)	4	E

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III rd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	**ECTS**	**Type of assessment**	**Subjects**	**ECTS**	**Type of assessment**
Geology	4	E	Methods of Drafting Regulatory Acts in Environmental Protection	3	C
Physics and Pollution of the Atmosphere	5	E	Sources of Radiation and Protection Techniques	4	E
Environmental Radioactivity	4	C	Transfer Phaenomena and Unitary Operations	4	E
Ecology	4	C	Vibrations and Noise Pollution	4	E

Physico-chemical Methods of Analysis	4	E	Professional Practice	4	V
Optional course (Water Supplies and Sewers / Sensors in Environmental Control)	4	E	Optional Course (Meteorology and Climatology/ Integrated Waste Management)	4	E
Optional Course (Classical and Nuclear Energetics/ Non-destructive Testing Methods in Environmental Protection)	5	E	Optional course (Integrated Waste Management/) Treatment and Disposal of Hazardous Waste)	3	C
			Optional course (Ecological Materials/ Land Improvement)	4	C

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IVth YEAR					
Ist SEMESTER			**IInd SEMESTER**		
Subjects	**ECTS**	**Type of assessment**	**Subjects**	**ECTS**	**Type of assessment**
Soil Science	4	E	Unconventional Energies	5	E
Elements of Electrochemistry and Corrosion	4	E	Practice for the Diploma Project	4	V
Analysis and Synthesis of Industrial Processes	5	E	Preparation for the Diploma Project	4	V
Environmental Quality and Sustainable Development (Environmental Management)	4	C	Optional Subject (Methodology of EIM and BM/ Eco-ethics)	4	C
Topography	4	C	Optional subject (Bioengineering/ Biotechnologies and Depollution of Ecological Systems)	5	E
Dynamics of Environmental Pollutants	4	C	Optional subject (Risk Factors, Remediation and Environmental Restoration/ Risk Management)	5	E
Optional subject (Seismology/ Methodology of Developing Grants)	5	C	Optional subject (Environmentally Friendly Technologies/ Technological Plant Design)	3	C

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

* V = test taken in the last two weeks of the semester (about 10% of the final grade)
* C = test taken in the last two weeks of the semester (about 30% of the final grade)
* E = exam taken during the exam period (at least 50% of the final grade)