

PROGRAMME PROFILE

Educational Programme	Engineering of biotechnical and ecological systems
Degree Awarded	Engineer
Standard Length of Studies (Number of ECTS Credits)	4 years - 8 semesters - 240 ECTS
Type of Study	Full time
Higher Education Institution	Babeş-Bolyai University Cluj-Napoca, Romania
Faculty / Department	Faculty of Environmental Science and Engineering
Contact Person	Prof. PhD. Eng. Alexandru Ozunu
Phone	+40264307030
Fax	+40264307032
E-mail	alexandru.ozunu@ubbcluj.ro
Website	http://enviro.ubbcluj.ro/
Profile of the Degree Programme	Environmental engineering
Target Group / Addressees	Graduates of secondary education with basic level of knowledge in physics, chemistry, biology, geography, geology, wishing to further develop competencies in these fields.
Entrance Conditions	50% baccalaureate examination score + 50% average high school grade
Further Education Possibilities	Master Studies, Doctoral Studies
Description of Study	The Environmental Engineering program allows students to acquire fundamental knowledge and expertise in a multidisciplinary area. Core courses: Theoretical and Applied Chemistry, Environmental Physics, Special Mathematics, Environmental Engineering, Soil Science, Environmental Geology, Biology and Microbiology, Environmental Quality Monitoring, Hydrology, Hydrogeology, Mechanical Engineering, GIS, Technologies for waste Disposal and Management, Technologies for Atmospheric Protection and Pollution Prevention, Electronics and electrical engineering, Chemical Engineering, Technologic Processes Analysis, Water Treatment Technologies, Risk Assessment and Disaster Management, Biophysics, Environmental Impact Assessment.
Purposes of the Programme	The main purpose of this programme is to train engineers, who will have up-to-date knowledge in the field of engineering, environmental sciences, management and who will be able to manage and prevent high risk activities with environmental impact.
Specialization / Area of Expertise	The curriculum of this program provides basic training in an area of great interest, both theoretical and especially practical, namely, the field of environmental engineering.
Extra Peculiarities	-
Practical Training	- internships and field trips, of 240 hours
Final Examinations	Research thesis
Gained Abilities and Skills	Specific abilities and skills:

	<ul style="list-style-type: none"> • Processing of data obtained through advanced methods, based on physical, chemical and mathematical models • the ability to work in a team – environmental audit (integrated environmental management systems), HAZOP teams etc. • Water management activities • Implementation of water treatment systems • Waste management technologies implementation • Decision-making activities in the field of environmental protection, based on specific studies • Risk assessment studies using up-to-date software • Control, decision and informing in environmental field, for supporting local authorities decisions.
Job Placement, Potential Field of Professional Activity	<p>After graduation, the engineer can choose from the following options:</p> <ul style="list-style-type: none"> - master programmes - doctoral studies - engineers in industrial operators, authorities (environmental protection agencies, environmental guard, emergency situations inspectorates etc.), non-governmental organisations.

Date:
11.10.2010

Signature: