

PROGRAMME PROFILE

Educational Programme	Risk Assessment and Environmental Security
Degree Awarded	Master in Risk Assessment and Environmental Security
Standard Length of Studies (Number of ECTS Credits)	2 years – 4 semesters – 120 ECTS
Type of Study	Full-time
Higher Education Institution	Babeş-Bolyai University Cluj-Napoca, Romania
Faculty / Department	Faculty of Environmental Sciences and Engineering
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Profile of the Degree Programme	Risk Assessment and Environmental Security degree program
Target Group / Addressees	Graduates in Environmental Sciences, Environmental Engineering, Physics, Chemistry, Biology, Geography, Geology.
Entrance Conditions	60% of the total represents the overall undergraduate average grade and 40% represents the average grade of the graduation exams
Further Education Possibilities	The master's programme aims at providing students with the appropriate tools for further doctoral studies and to become professional experts in the field.
Description of Study	<p>The master's program in Risk Assessment and Environmental Safety allows students to acquire fundamental knowledge and expertise in a multidisciplinary area.</p> <p><i>Core courses:</i> Technologic Risks Assessment and Management, Environmental Quality Control, Natural Risks and Disasters Management, Environmental Integrated Management Systems, Informatics for Risk Assessment, Environmental Pollution Prevention, Ecotoxicology, Environmental Impact Assessment Methods, Population Preparedness, Environmental Risk Communication</p>
Purposes of the Programme	<p>The main purpose of this programme is the acquiring of knowledge on several types of threats and risks in the environment, during normal activities and emergency situations. The programme offers the possibility for students to learn and to apply risk analysis as a tool for:</p> <ul style="list-style-type: none"> • identification of risks and possible intervention actions; • implementation of risk reduction methods through prevention actions or mitigation of negative consequences on the population and the environment; • elaboration and use of management systems within the field of safety, health and environment.
Specialization / Area of	The curriculum of this program provides basic training in

Expertise	an area of great interest, both theoretical and especially practical, namely, the field of environmental sciences and engineering.
Extra Peculiarities	-
Practical Training	Throughout the course students are required to undertake one semester of research work at Babeş-Bolyai University or abroad.
Final Examinations	Research master thesis
Gained Abilities and Skills	<p>Specific abilities and skills:</p> <ul style="list-style-type: none"> • elaboration and implementation of complex risk analysis and assessments in the field; • Processing of data obtained through advanced methods, based on physical, chemical and mathematical models; • use of specific software; • the ability to work in a team – environmental audit (integrated environmental management systems), HAZOP teams etc. • the ability to work independently (environmental expert/consultant).
Job Placement, Potential Field of Professional Activity	<p>The training activities within this programme will allow the forming of specialists in the field of environmental sciences and engineering, which will have the ability to prevent and to manage high risk potential phenomena.</p> <p>Possible job placements:</p> <ul style="list-style-type: none"> - engineer or researcher in environmental assessment, analysis and management centers, - in production units as environmental engineer or safety engineer - experts in consultancy and design companies - experts in governmental agencies, like environmental agencies, national guard for the environment emergency situations inspectorates.

Date:
11.10.2010

Signature:

