

## **Why choose the master specialization Environmental Management and Protection?**

Are you concerned with the quality of the major environmental components? Would you like to learn how to conduct field investigations and how to use the analytical environmental quality investigation and natural protected areas management techniques? In this case the master specialization Environmental Management and Protection is for you.

This Environmental Science master program in Romanian language is attractive both for the Bachelor graduates in the fields of environmental protection, and for those in the associated fields such as Economy, Sociology, Geography, Ecology, Environmental Engineering, Biology, etc.

## **What will you learn throughout the years of study?**

The program offers you the possibility to learn and apply new concepts, modern methodologies and technologies as tools for the analysis and interpretation of the environmental data and information from various sources and scientific fields. Also, you will know both the Environmental Management Systems (EMSs) that can be used for the improvement of economic, environmental performance and organizational competitiveness, and the importance and content of the ISO 14001 and EMAS standards.

### **Core disciplines:**

#### **1<sup>st</sup> Year:**

Environmental management and audit, Energy and environment resources, Water resources management, GIS analysis in environmental studies, Management of natural risks and disasters, Analysis, assessment and monitoring of air quality, Prevention of environmental pollution in industry, Legal instruments for environmental protection at international level, Ecological restoration, Global climate change.

#### **Fieldwork**

#### **2<sup>nd</sup> Year:**

Quality assessment and soil protection, Analysis, assessment and protection of the biotic environment, Methods and techniques for environmental impact assessment, Ethics and methodology of scientific research, Impact of mineral resources on the environment, Meteorological and hydrological hazards, Regional planning and local development, Applied geomorphology

#### **Optional courses:**

Technological disaster management OR Waste management, treatment and reuse (recovery)

Applied Remote Sensing OR Ecosystem services management

#### **Practice for the elaboration of the dissertation thesis**

<b>Elaboration of the dissertation thesis</b>
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In order to give you the best professional training opportunities, we follow closely the requirements of the market as well as the current knowledge necessities in developing our curricula.

**What skills will you possess after completing your studies and how will these help you in the future?**

The professional skills you will develop will prepare you for:

- **Conduct complex environmental management and protection studies** using the tools for managing the environmental hazards and risks, and the tools necessary for the protection of energy resources, water, air, biodiversity, soils, and wastes in the context of the territory.
- **Manage environmental problems at organizational level** by offering both sustainable and professional solutions specific for the environmental projects.
- **Conduct environmental impact assessment studies**, both by applying the current methods and techniques for environmental analysis and assessment, and by interpreting the correlations between the human activities and their environmental effects by data analysis and specific environmental information.

**Beside these key skills, you will develop even more transversal skills**, such as communication abilities, multidisciplinary teamwork capacities, analytical and critical thought on environmental problems and sustainable development.

**After graduation, you may choose various professional trajectories** such as ecological expert, conservation scientist, ecological engineer or environmental protection professional. Also, you can choose to continue the **doctoral studies**, in Romania (within the Environmental Science Doctoral School) or abroad.