

Why choose the master specialization Risk Assessment and Environmental Safety?

Would you like to learn how to analyze, assess and manage different types of anthropic risks, hazards and impacts on the environment, society and economy? In this case the master specialization Risk Assessment and Environmental Safety 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 especially the possibility to learn to apply the risk analysis as a systematic tool to identify both the various types of risk, and the types of possible interventions. Also, after graduation will be capable of proposing and implementing risk reduction measures by methods to prevent or at least mitigate the negative effects on the population and the environment.

Discipline:

1st Year:

Management of technological risks and disasters, Risk management and assessment of chemical hazardous substances, Management of natural risks and disasters, Risk assessment: water and soil, Ethics and methodology of scientific research, GIS analysis in environmental studies, Emergency situations management, Legal instruments for environmental protection at international level, Human health risk factors, Environmental pollution prevention in industry, Toxic and dangerous waste treatment.

Professional Fieldwork

2nd Year:

Management of contaminated sites, Environmental impact assessment methods and techniques, Environmental risk communication, Principles of industrial hygiene and safety, Fire risk management, Emergency medicine, Risks induced by hazardous goods transport, Eco-responsible entrepreneurship.

Optional Courses:

Disaster resilience OR Environmental Impact of the Capitalization of Mineral Resources

Applied remote sensing OR Acquisition and interpretation of environmental data

Practice for the elaboration of the dissertation thesis

Elaboration of Dissertation thesis

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:

- **Providing counseling both on safety and environmental risk management systems, and on pollution prevention and major industrial accidents:** you will acquire theoretical and practical knowledge on using environmental risk analysis methods and techniques, which will help you propose technical measures for risk reduction. Also, you will acquire knowledge on the implementation of the safety management system in the context of the Seveso Directive and you will develop abilities to use specific internationally accepted software for environmental risk assessment.
- **Conduct environmental assessments of the sites** based on the information acquired from the industrial operator and from the results of the environmental analyses to identify the environmental impact and the potential solutions according to environmental legislation.
- **Develop strategies for the remediation of environmental factors** depending on the specific impact and risks identified.

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 risk management scientist, technological risk prevention-reduction expert, contaminated sites management and remediation professional, environmental protection professional or environmental protection engineer. Also, you can choose to continue the **doctoral studies**, in Romania (within the Environmental Science Doctoral School) or abroad.