



**FACULTY
OF ECOLOGY**



ENVIRONMENTAL MANAGEMENT

MASTER'S PROGRAMME DEGREE



PROGRAM ADVANTAGES

- ✔ **Study of the specifics** of the natural resources and environmental conditions rational use, their reproduction and protection.
- ✔ **The Master's Degree is aimed at training professionals** who specialize in ecology and know how to best manage a particular territory or facility.
- ✔ **The Master's degree program is perfect for those students who are planning to continue an academic career:** regional geoenvironmental assessment of territory, radiation safety, environmental climatology, as well as the study demographic aspects of environmental management allows students to fully immerse themselves in the scientific field.
- ✔ **The special feature of the program** is that students learn to apply theoretical knowledge in the field of ecology in practice, to analyze the impact of socio-economic, political and cultural factors on decision-making in the field of environmental protection.
- ✔ **Classes are held in Russian**, but the group is had students from different countries, which makes the program truly international.
- ✔ **Graduates** usually work for international environmental organizations, in conjunction with environmental engineering design and survey organizations, and government agencies.
- ✔ **Active participation of invited specialists** in conducting master classes, Mopen lectures and student practices.



STUDYING PROCCESS

120 credits.

Lectures, workshops and self-study, laboratory work, several practice types



INTEGRATED ASSESSMENT OF NATURAL AND PRODUCTION CAPACITIES

- An integrated approach in assessing environmental conditions.
- Natural resource potential of countries.
- Regional patterns of energy resources location - the basis of modern economy development.
- Potential for alternative energy resources.



ECOLOGICAL CLIMATOLOGY

- Wind and solar energy use, advantages and limitations, regional specifics.
- Agroclimatic resources.
- Role of climate in national economies.
- The role of climate in human formation and diffusion on the continents.
- Architectural and building standards depending on climate conditions.
- Dangerous hydrometeorological phenomena.



REGIONAL GEOENVIRONMENTAL ASSESSMENT OF TERRITORIES

- Engineering and geological approach as a basis for regional geoenvironmental assessment of the territory.
- Engineering and geological features of territories.
- Basic principles of conditions typification.
- Changes in geological environment of different territories and its resistance to anthropogenic impact.
- Geoenvironmental mapping.
- GIS-technologies.



DEMOGRAPHIC ASPECTS OF ENVIRONMENTAL MANAGEMENT

- The current demographic situation and its geographical aspects.
- Models for optimal population placement.
- Structure and dynamics of the population.
- Demographic problems.



STUDENTS FEEDBACK

 **OSPANOVA AIGUL, KAZAKHSTAN**

“ Students of the Master’s program in Environmental Management receive not only theoretical knowledge, but also practical skills. I really like its versatility in disciplines, which allows me to consider environmental management from all sides. Nowadays, students who have undergone such a training program will be in great demand, because they will not be narrowly focused specialists, but will have a variety of professional competencies. ”

 **THOMA ANAMARIA, ALBANIA**

“ Master of Environmental Management profiles the graduate as a multidisciplinary professional in the field of interdisciplinary scientific courses focused on a modern approach to sustainable exploitation and the protection of the natural environment. The faculty provides gather complex theoretical and practical knowledge of organizational, legal, and social considerations of environmental protection, in agreement with the State Environmental Policy. For me as holder of Bachelor and Master of Architecture and Engineering degree this faculty gives me the opportunity to learn the financial and economic measures of environmental management and protection, and acquire the ability to make decisions in the area of financial and legal aspects of environmental management, which includes project management, techniques of modeling and simulation in business processes, and advanced computer technology that is used in environmental management. ”



HEAD OF THE PROGRAMME

STANIS ELENA VLADIMIROVNA



Candidate of Technical Sciences, Head of the Geoecology Department. Academician of the International Academy of Sciences and Life Safety (IANEB), Professor of the Russian Academy of Natural Sciences (RAE).

The dissertation ецзшс : “Increasing the reliability of mining and geological information in the design and development of mines”.

SCIENTIFIC INTERESTS:

environmental education, geoenvironment, geoecology, environmental geochemistry, integrated assessment of the environment, geoenvironmental zoning of territories.

Author of scientific articles in peer-reviewed Russian and foreign scientific journals (HAC, SCOPUS, Web of Science).

4 patents in the field of geoenvironmental safety of underground works.

Head of several academic research projects: “Study of ecological features of landscapes in the middle belt of Russia”, “Study of geoenvironmental conditions of the territory of Central Russia”, “Anthropogenic transformation of urbanized territories ecosystems in the European part of Russia”.