



# **ECONOMICS OF NATURAL RESOURCES MANAGEMENT**

**MASTER'S PROGRAMME DEGREE**



## PROGRAM ADVANTAGES

- ✓ The program is based on the experience of environmental specialists from different countries of the world, and covers foreign experience in many areas of modern environmental management and economic evaluations of natural resources.

Practical specialists from different sectors of economy, international
- ✓ experts, leading scientists are involved in creating the program and teaching.
- ✓ The program integrates massive open online English courses on key issues of environmental safety and the efficient use of resources, that gives you an opportunity to test different forms of educational technologies and to select the most comfortable for you.
- ✓ Lectures and master classes by leading experts in the field of industrial and agricultural nature management, economic assessments of natural resources, environmental safety, joint creative projects and conferences are regularly held.
- ✓ The opportunity to participate in the exchange programs with partner universities of foreign countries.



# STUDYING PROCCESS

**120 credits.**

Lectures, practical classes and independent work, industrial and research practices



## ESTIMATIONS OF NATURAL RESOURCES

- Types of natural resources.
- Purposes of the classification.
- Approaches and min concepts of estimations of natural resources.
- Qualitative assessment: characteristics of quality.
- Quantitative assessments.
- Economic assessments of natural resources different types: concepts, approaches, methodologies.
- Examples.
- Results of estimations as a base for the resources management.



## ENVIRONMENTAL RISK MANAGEMENT

- The concept of risk and environmental risk.
- The main types of risks and general principles for their assessment.
- Theoretical foundations of risk analysis.
- Methods of analysis and risk assessment.
- Environmental risks in the design of facilities.
- Environmental design.
- Project risks, their minimization and the need to consider in the analysis of the sustainability of investment projects.
- The concept of environmental safety in industry and the legal framework for its maintenance.
- The role of environmental risk analysis in investment design.
- The concept of environmental and economic risk.
- Risk factors.
- Methods for assessing environmental and economic risks.
- Man-made risks and their assessment.





## **MONITORING OF ENVIRONMENTAL IMPACTS**

- Methods and instruments of monitoring.
- Bioindication.
- Marker substances.
- Standards and regulations of the environmental monitoring.
- Use of the monitoring information.
- Models and forecasts.
- International networking.



## **ENVIRONMENTAL NORMS AND REGULATIONS**

- Environmental norms and standards as tools for environmental management in housing and communal services.
- The role of regulation in ensuring the sustainable development of environmental and economic systems.
- The combination of management tools and the effectiveness of their use.
- Stability of natural and natural-technogenic systems.
- Influencing factors.
- The reactions of organisms and ecosystems to impact.
- System of regulation in the field of quality assessment and use of atmospheric resources, water bodies, land use, waste management: basic principles and approaches.
- Current documents and prospects for modernization.
- Rationing based on the concept of risks.
- Rationing in connection with the implementing of BAT.



## **WASTE: LANDFILLS, PROCESSING AND RECYCLING**

- The problem of waste generation.
- Waste in the environment.
- Stability and resilience of ecosystems to pollution.
- Ensuring environmental safety when handling waste.
- Processing, utilization and neutralization of industrial waste.
- Landfills.
- Additional sources of solid waste.
- Wastewater.
- Gas emissions.
- Sources of generation and methods for processing waste with a high content of organic substances.
- Technologies for sorting and processing household waste.
- Landfills for the disposal of industrial waste.
- Recycling as recycling.



## **ECONOMIC ASPECTS OF NATURAL RESOURCES MANAGEMENT**

- Natural resources as an object of management.
- Management approaches in the environmental regulation.
- Economic instruments in the regulation of use of natural resources.
- Efficiency of use of natural resources and of their restoration.
- Efficiency of the management instruments.



# STUDENTS FEEDBACK



**MARTIN MAMBOLEO (KENYA)**



Having received tutelage from some of the leading experts in Resource Economics, the master's program in Economics of Natural Resources Management at RUDN University has helped me to understand the interactions between the environment and economics. Through lectures and practice, the course has prepared me on how to be able to develop sustainable methods and practices in managing Natural Resources. Even though the program is offered in English medium, studying in Russia, in particular RUDN University, has helped me to quickly learn the Russian language and culture and make friends all over the world! ”



# HEAD OF THE PROGRAMME

**MARGARITA MIKHAILOVNA REDINA**



Doctor of Economics, Associate Professor; Head of the Department of Applied Ecology, Faculty of Ecology.

**Thesis:** “Environmental and economic analysis of the activities of enterprises in the oil and gas industry.”

## **FIELDS OF SCIENTIFIC INTERESTS:**

environmental management, environmental safety in the oil and gas sector, modeling of environmental pollution, innovative technologies in education for sustainable development.

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

Regularly gives presentations at Russian and international conferences on environmental safety, sustainable development of universities, geoecology, environmental education. Co-author of the textbooks “Rationing and Reducing Environmental Pollution”, “Environmental Monitoring”, “Environmental Management”, used in more than 100 universities in Russia. Co-author of massive open online courses “Environmental norms and regulations for the sustainability”, “Management of Energy Resources”. Editor-in-chief of the journal “Bulletin of the Peoples’ Friendship University of Russia. Ecology and life safety”.

Head of the RUDN University participation as the national coordinator of the global university network UI Green Metric World University Rankings Network.

A participant in projects to assess the environmental impacts of oil and gas companies, remediation of oil-contaminated territories, environmental education, assessing the effectiveness of the work of environmental specialists of enterprises.