Applied Ecology

The aim of the Programme is to train Master's in Life Sciences with fundamental knowledge of the ecosystem processes and their evaluation methods, the principles and systems of nature management and environmental protection. The graduates will be ready for the research and innovation-based professional activity and doctoral studies.

The outcomes of study programme

Upon the completion of the study programme, graduates will be able to:

- select scientific research methods and methods of mathematical statistics in conducting specific research;
- evaluate and select the measures for the protection of the terrestrial, aquatic and anthropogenic ecosystems;
- identify preventive measures for pollution dispersion in ecosystems and select appropriate environmental bioindication methods;
- to prepare nature management plans for the protected territories; evaluate the concepts of the environmental policy and substantiate the measures;
- to apply the principles, methods and systems of the selected area (different biodiversity groups, forest ecosystem restoration, formation and management, sustainable development and environmental science) in the environmental activity

Title of the courses:

Statistical Methods in Ecology
Geographic Information Systems in Ecological Research
Environmental Bioindication
Diffusion of Pollution in Ecosystems
Diversity and Protection of Terrestrial Ecosystems
Scientific Research Methodology in Ecology
Diversity and Protection of Hydroecosystems
Anthropogenic Ecosystems
Nature Management
Environmental Policy
Plant Diversity and Conservation
Vertebrate Diversity and Conservation
Invertebrate Diversity and Conservation
Ecological-Evolutionary Genetics
Ecological Basis of Forest Regeneration
Management of Sustainable Forest Stands
Sustainable Forestry Development
Forest Management in Protected Areas
Environmental Epidemiology
Ecohydrology
Radioecology
Heavy Metals in the Environment
Planning and Organization of Ecological Research
Application of Multiannual Statistical Methods in Ecological Research
Professional Educology
Consulting Methodology

Final Thesis
Faculty of Forest Sciences and Ecology **Group of Fields of Study** Life Sciences (D) **Lenght of Programme** 2 years **ECTS credits** 120 **Name of Qualification** Master's in Life Sciences
Contacts **Faculty of Forest Sciences and Ecology (inquiries regarding study programme)** **Contact persons of the programme:** Ms. Aida Stikliene, aida.stikliene@vdu.lt **Address** Studentu str. 11, LT-53361 Kaunas distr., Lithuania **Website** https://zua.vdu.lt/en/faculties/faculty-of-forest-sciences-and-ecology/