Biological Systems Management (Bachelor)

The main aim of the programme is to train specialists in agricultural sciences who will be able to develop and implement sustainable, innovative and competitive bio-business models using interdisciplinary knowledge in the field of management of components of biological systems, information technology, economics, management and financial management to achieve the goal of the European Green Course, based on the analysis of change and bio-business models.

Graduates have career opportunities working in agricultural production, biobusiness companies, state and non-governmental organizations related to agriculture, in raw material processing companies, agricultural advisory institutions, public and budgetary institutions, as well as to create and develop own business. Graduates also have the opportunity to continue their studies in master's study programmes in agricultural sciences and related specializations.

The outcomes of study programme

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

- define the regularities of development of components of agro-systems - soil, plants and animals;
- describe and evaluate the peculiarities of sustainable biosystem technologies and to define measures and agro-innovations for the regulation of the values of quantitative and qualitative indicators of production;
- describe the peculiarities of agricultural economics and business management, explain the functions and principles of production process management, analyze and evaluate the factors of the business environment;
- plan and conduct research, statistically evaluate, analyze and summarize research data required for the management of biological systems and the implementation of the objectives of the European Green Course, innovation and professional communication;
- assess soil and plant potentials, environmental factors that determine plant development and the impact of anthropogenic activities on climate change;
- evaluate, select sustainable plant and animal production technologies and implement them in practice, combining the principles of sustainable agriculture with innovation and circular economy models;
- plan and organize the activities of bio-business entities, prepare a project for the implementation of innovations, provide sources of financing for activities.

Study subjects:

Advanced mathematics, Agrophysics and agrometeorology, Information technology, Applied chemistry, Biology and toxicology of microorganisms, Plant morphophysiology, Soil resources, Water resources and aquaculture systems, Language of specialty, Ecology of natural and managed ecosystems, Renewable agrobiological, Sustainable farming systems, Environmental and climate change impact assessment of agriculture, Agricultural economics and policy, Precision agricultural engineering, Applied IT in agrobiosystems, Crop technology, Flows of plant nutrients in agrobiosystems and their management, Animal science, Fundamentals of research methodology, Hydroponics and aquaponics, Quality and safety of agricultural products, Integrated pest management, Basics of finance and accounting, Bio-business management, Complex teaching practice.

Faculty: Faculty of Agronomy, Agriculture Academy, Vytautas Magnus University
Group of Fields of Study: Agricultural Sciences
Lenght of Programme: 4 years (full time)
ECTS credits: 240
Name of Qualification: Bachelor of Agricultural Sciences
Language of Study: Lithuanian

Contacts

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