

Life Science



Latvia University
of Life Sciences
and Technologies



MAGNETIC
LATVIA

LATVIA UNIVERSITY OF LIFE SCIENCES & TECHNOLOGIES

is one of the leading higher education institutions in the Baltic States that has provided education and carried out research for 155 years in areas which are significant for each country's economy. It has been formed as an agricultural academy, which trained specialists to work in the rural areas of Latvia. But just like the structure of the economy has changed, the essence of the university has changed as well. Since 1863 the university has evolved and now it provides study programmes not only in agriculture and biosciences, but also in engineering and social sciences. The University's greatest strength and potential lies in the coexistence of all these directions. Since 2018 it has been renamed to Latvia University of Life Sciences and Technologies.

LLU is offering higher education since 1863 and by this time is has educated specialists for five generations. The high quality of the study and academic environment is proved by the appreciation of the employers of Latvia as well as the 2nd place in Latvia by the number of patents. Nowadays LLU has become the intersection between science, innovation, research, technology and business, and it is a place, where each student acquires education with added value – knowledge, skills and competence that makes him or her not only a good professional, but also a better person.

PROGRAMMES

62
study programmes

14
different directions

27
bachelor programmes

22
master programmes

13
doctroal programmes

FACULTIES

- 8**
- Faculty of Agriculture
 - Forest Faculty
 - Faculty of Veterinary Medicine
 - Faculty of Engineering
 - Faculty of Environment & Civil Engineering
 - Faculty of Food Technology
 - Faculty of Economics & Social Development
 - Faculty of Information Technologies

MAIN FIGURES

4176
students (2017)

1110
employees

58
professors

3392
bachelor students

452
academic staff

61
associated professors

616
master students

658
general staff

69
docents

168
doctoral students

45
lecturers



MAGNETIC
LATVIA

MISSION

To develop competitive intellectual capital on the basis of excellence in research, application of research findings, high quality of education and effective management of the university.

VISION

Latvia University of Life Sciences and Technologies is one of the leading universities of science and technologies in the Baltic Sea region, specializing in the sustainable use of natural resources aimed at the enhancement of quality of life for society.



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FACULTY OF ENGINEERING

PROGRAMME	BACHELOR STUDIES	MASTER STUDIES	DOCTORAL STUDIES
Agricultural Engineering	•	•	•
Machine design & construction	•		
Applied energetics	•		

FACULTY OF ENVIRONMENT & CIVIL ENGINEERING

PROGRAMME	BACHELOR STUDIES	MASTER STUDIES	DOCTORAL STUDIES
Water engineering	•	•	•
Environmental Engineering	•	•	•
Landscape Architecture and Planning	•	•	•
Civil Engineering	•	•	•

FACULTY OF INFORMATION TECHNOLOGIES

PROGRAMME	BACHELOR STUDIES	MASTER STUDIES	DOCTORAL STUDIES
Computer control & computer science	•		
Machine design & construction	•	•	•

FOREST FACULTY

PROGRAMME	BACHELOR STUDIES	MASTER STUDIES	DOCTORAL STUDIES
Wood Engineering	•	•	•
Wood processing	•		
Wood Materials & Technology	•		

Latvia University of Life Sciences and Technologies offers a wide range of all level study programmes for international students in English.

STUDY PROGRAMMES FOR FOREIGN STUDENTS

BACHELOR STUDY PROGRAMMES:

- Information Technologies for Sustainable Development (professional);
- Landscape Architecture and Planning;
- Computer Control and Computer Science.

MASTER STUDY PROGRAMMES:

- Information Technologies;
- Agricultural Engineering (two specialisation options: Automotive Engineering or Power Engineering);
- Landscape architecture and Planning (professional).

DOCTORAL STUDY PROGRAMMES:

- Agricultural Engineering;
- Environmental Engineering;
- Landscape Architecture;
- Water Engineering;
- Civil Engineering;
- Wood Materials and Technology;
- Information Technologies.



BUDGET REVENUE STRUCTURE

15,68

(EUR million)
REVENUE FOR HIGHER EDUCATION

6,51

(EUR million)
REVENUE FOR SCIENTIFIC ACTIVITIES

6,04

(EUR million)
OTHER REVENUE



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LIFE
SCIENCES

FACULTY OF AGRICULTURE

Faculty of Agriculture prepare both academically and professionally trained specialists in the field of agriculture in traditional ways, and now offer also non-traditional programs such as organic agriculture (horticulture and horticulture), horse and riding training, and others.

Faculty of Agriculture anticipate that in the future the study programs will change with the inclusion of information technology in special studies, some changes will lead to the increasing introduction of modern genetics. Already working with Latvian institutions and foreign partners, the Faculty has a modern Scientific Laboratory of Grain and Seed Training, the Laboratory of Molecular Genetics Research and Agrophysics, Plant Pathology Laboratory, and the Scientific Laboratory of Agronomic Analysis available for research.

FACULTY OF VETERINARY MEDICINE

The Faculty of Veterinary Medicine is the only faculty in Latvia offering courses that ultimately qualify as a veterinarian. Graduates have the opportunity to establish private veterinary practice, work in established animal clinics, food and veterinary administration and service institutions. Food hygiene specialists (Master's program) can work in the food production, distribution and catering companies, diagnostics of laboratory examinations, as well as to develop their careers in veterinary medicine science. The faculty is managed by three institutes and the Veterinary Clinic of the LLU.

FACULTY OF FOOD TECHNOLOGY

Apart from basic studies, qualitative provision of master's and doctoral studies, FFT teaching staff develops study materials and tools; actively pursues various scientific research activities. Traineeships and professional experience are gained through participation in international conferences, seminars, congresses in Europe as well as in other parts of the world.

FOREST FACULTY

Forest Faculty has long history. It was one of the first establishments in university after Faculty of Agriculture. The faculty consists of 4 departments: Forestry, Forest use, Wood Processing and Working Environment.

SCIENTIFIC LABORATORY OF MOLECULAR BIOLOGY AND MICROBIOLOGY

"The Scientific Laboratory of Molecular Biology and Microbiology", acting according to the decision No 8-170/13.05.2015 of the LLU Senate and the Regulation, conducts tests, provides results and carries out research in molecular biology, microbiology and genetics, maintains and stores the genetic resources bank of agriculture animals of Latvia (supporting postgraduate and doctoral students in their research activities if possible). The functions of the bank include creation, maintenance and improvement of the quality system.

SCIENTIFIC LABORATORY OF BIOTECHNOLOGY, DEPARTMENT OF AGRONOMIC ANALYSES

"Scientific Laboratory of Agronomic Analysis" was founded in 1995. The laboratory conducts physical and physical-chemical tests of beer barley and animal feed. Since 2002 the laboratory conducts tests according to the LVS EN ISO/IEC 17025 standards. From year 2017 laboratory has changed title to "Scientific Laboratory of Biotechnology" with one of its departments being "Department of Agronomy Analyses".

RESEARCH LABORATORY OF ECONOMIC CHARACTERISTICS OF PLANT VARIETIES

The analysis of economic characteristics of plant varieties by the "Research Laboratory of Economic Characteristics of Plant Varieties" has been conducted since 2012 following the Regulation No.518 of the Cabinet of Ministers.

The aim of the analysis of economic characteristics of plant varieties is to identify productivity of a variety, its biological characteristics, the resulting product quality, differences in chemical and technological properties in relation to the standard variety, resistance to diseases and pests as well as suitability of varieties for growing in agro-climatic conditions of Latvia.

INSTITUTE OF AGRICULTURAL RESOURCES AND ECONOMICS

The DPP "Institute of Agricultural Resources and Economics" (AREI) was founded on 1 January, 2016 according to the Regulation No. 640 (October 21, 2015) of the Cabinet of Ministers of the Republic of Latvia, by merging of several institutions, namely, the agricultural research institutes "State Priekuli Plant Breeding Institute", "State Stende Cereals Breeding Institute" and "Latvia State Institute of Agrarian Economics" and the scientific staff of "Latgale Agricultural Research Centre", Ltd. Now it is the only research institute in Latvia engaged in breeding of field crops; its researchers specialize in breeding, arable farming and interdisciplinary studies in the science of economics.

LATVIAN PLANT PROTECTION RESEARCH CENTRE

"Latvian Plant Protection Research Centre", Ltd, is an institution included in the Latvia University of Life Sciences and Technologies. The centre is engaged in the research of plant protection issues.

The centre is the only institution in Latvia entitled to provide monitoring of efficient chemical and biological plant protection measures implementing the supervision and monitoring control in the framework of the Plant Protection Law as set out in Regulation No.341 (05.10.99) of the Cabinet of Ministers.

RESEARCH INSTITUTE OF AGRONOMY

"Research Institute of Agronomy" is a department under the supervision of the Vicerector for Sciences. The institute conducts research on breeding perennial grasses, works on latest varieties of high quality seeds, tests characteristics of crop varieties in conventional and biological agriculture, educates young scientists in the framework of the LLU doctoral programme. The institute offers consultations to farmers and agricultural specialists, promotes scientific information, conducts soil and plant analysis.

INSTITUTE FOR PLANT PROTECTION RESEARCH

The aim of the Institute is to carry out scientific and practical studies at international level in the plant protection sector. Main tasks of the Institute are the following:

- to carry out studies on the biology of organisms harmful to crops: disease agents, pests and weeds and interaction with the crop;
- to develop, adapt and demonstrate sustainable technologies, methods and products for the control of harmful organisms;
- to carry out analyses and provide advice to farmers and industry undertakings in the fields of competence of the Institute.

INSTITUTE OF HORTICULTURE

The LLU DPP "Institute of Horticulture" was founded on January 1, 2016. The main research directions of the institute are the following: diversification and breeding of a range of garden crops' varieties suitable for the Baltic Sea region; environmentally friendly growing systems of garden crops; storage and processing technologies of garden crops; studies of biological foundations of horticulture science. The institute strengthens the scientific potential of the Faculty of Agriculture and contributes to the improvement of the quality of study courses related to horticulture.

POINTS OF EXCELLENCE

According to QS EECA ranking LLU is one of best Universities in Europe and Central Asia and the best Life-science University in Baltic states. LLU has ranked 139th among the top 300 universities in QS EECA University Rankings 2018. Besides LLU holds "**Investment in Excellence**" standard!

LLU is included in U-Multirank, a European Union higher education institution's assessment system, based on both academic achievement and the quality of training, international cooperation and other criteria.

The LLU Institute of Agriculture in 2017 concluded 32 license agreements, both national and international level. 22 selected crop varieties were included in the national and EU common catalogue of plant varieties.

Faculty of Veterinary Medicine has internationally accredited study programme in veterinary medicine, proved by EAEVE (European Association of Establishments For Veterinary Education).

RESEARCH

LLU's specialisation fields and subfields are set forth in the context of the existing administrative division of LLU. The specialisation fields and subfields of each unit have been chosen on the basis of the scientific competence of the university and the lines of research selected for further development, and they comply with the needs of the prospective areas of economy, in which the Latvian innovation capacity has to be formed, determined in the Smart Specialisation Strategy of Latvia.

The Block of Life Sciences or Biological Sciences includes Agricultural sciences (Group 4), as well as related science sub-divisions in Natural sciences (Group 1) and Medical and health sciences (Group 3). The main research activities are related to agriculture, forestry and veterinary medicine.

CONTACTS

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