Latvia University of Agriculture
(LLU, Jelgava, Latvia)

Aigars Laizāns
Vice-Rector of Studies
2018
Brief History

1863
Agriculture Department of Riga Polytechnic

1919
Faculty of Agriculture of Latvia University

1939
Jelgava Academy of Agriculture

1944
Latvia Academy of Agriculture

1991
Latvia University of Agriculture (LLU)

2018

Starting March 06, 2018
the name of university in English is
Latvia University of Life Sciences and Technologies
Located in the city of Jelgava
40 km south-west of Riga, the capital of Latvia
True students’ city - every 10th inhabitant of Jelgava is a student
Latvia University of Life Sciences and Technologies

- 4th largest higher education institution in Latvia
- The main university responsible for Bioeconomics development in Latvia
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.
Leading university in bioeconomy and life sciences

STEM based study programs and research directions

Life sciences
- Veterinary medicine
- Agriculture
- Forestry

Engineering
- Food technology
- Wood processing
- Landscape architecture

- Environment and water management
- Construction
- Energy
- Mechanical engineering
- Information technologies

Bioeconomics, social sciences
Study programmes

62 Study programmes

BSc level studies: 27
MSc level studies: 22
PhD level studies: 13

* Data by October 1, 2017
Number of students

- Bachelor level studies: 3392
- Master level studies: 616
- PhD level studies: 168

4176 students in Latvia University of Life Sciences and Technologies

* Data by October 1, 2017
Data by October 1, 2017

Academic Staff: 658; 59%
Other: 41%

- Professors: 25%
- Associate Professors: 26%
- Docents: 30%
- Lecturers: 19%
Investments (2017...)

22.3 Million EUR

- 3,385,668 EUR STEM study programs modernization
- 3,112,342 EUR Infrastructure
- 15,885,095 EUR Research infrastructure (STEM)
Faculty of Agriculture

**Study areas**
- Horticulture
- Crop Cultivation
- Animal Husbandry
- Entrepreneurship in Agriculture

**Research fields**
- Research of soil
- Improvement of crop productivity and yield quality
- Plant health, environmentally friendly technologies
- Development of animal productivity and functional efficacy

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Forest Faculty

**Study areas**
- Forestry
- Forest Exploitation
- Wood Processing

**Research fields**
- Forest cultivation, conservation, production mining technology
- Wood processing
### Faculty of Veterinary Medicine

<table>
<thead>
<tr>
<th>Study areas</th>
<th>Research fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veterinary medicine</td>
<td>Faculty is the centre of veterinary medicine science in Latvia that in cooperation with other scientific institutions carries out the research activities on current problems in the area of veterinary medicine, medicine and biology.</td>
</tr>
<tr>
<td>Food hygiene</td>
<td></td>
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</tbody>
</table>

### Faculty of Food Technology

<table>
<thead>
<tr>
<th>Study areas</th>
<th>Research fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food technology</td>
<td>New products from the raw materials of plant and animal origin, their production technologies and nutrition</td>
</tr>
<tr>
<td>Food science</td>
<td>The studies of nutrients</td>
</tr>
<tr>
<td>Hotel and restaurant management</td>
<td>Food safety and risk management in catering enterprises</td>
</tr>
<tr>
<td></td>
<td>The study of biologically active compounds in agricultural origin and food raw materials and products</td>
</tr>
</tbody>
</table>
Faculty of Engineering

Study areas
- Automobile transport
- Agricultural machinery
- Agricultural energetics
- Technical expert
- Machine design
- Design and crafting
- Pedagogy
- Career counsellor

Research fields
- Alternative energy resources and equipment
- Biofuels and alternative fuels
- Energy saving technologies
- Automatic control in agriculture production
- Livestock precision technology and management systems
- Use of biomass for energy production
- Machine design and manufacturing
- Performance of electric vehicles
- Pedagogy
- Developmental psychology

Faculty of Environment and Civil Engineering

Study areas
- Civil engineering
- Landscape architecture and planning
- Land management and land surveying
- Environmental engineering and water management

Research fields
- Agriculture impact on the environment
- Self-runoff drainage systems
- Optimization and strengthening of structures
- Development of Latvia’s rural landscape
- Development of new energy efficient building materials
- Sustainability of the buildings
- The Model of Land Management in Local Municipality
**Faculty of Economics and Social Development**

### Study areas and research fields

- Economics
- Public administration
- Project management
- Business management
- Finance and credit
- External relations of organizations
- Regional development and management
- Marketing and agrarian economics
- Accounting and accounting theory
- Accountancy, control and analysis of business functions
- Sociology of organizations and public administration

**Faculty of Information Technologies**

### Study areas

- Computer control and computer science
- Accounting and accounting theory
- Information technologies
- Programming

### Research fields

- Risk analysis in agriculture
- Agriculture information systems
- Modelling of biological process imitations
- Statistics and methods of regional analysis
- Systems analysis and modelling in forest management and planning, etc.
Entrepreneurs are interested to make successful cooperation with scientists in new product implementation. In the new building are located small pilot units and laboratories with modern manufacturing facilities.
Cooperation of scientists and entrepreneurs. Innovations. Excellence

Cereals “Milzu!”
“MILZU!” Ltd

Chewing bee bread pastilles
„Bee Bite” Ltd

Apple and pear chips „Garden Snack”
„Garden Snack” Ltd

Vegetable purees for children „Rūdolfs”
„Lat Eko Food” Ltd
LLU food scientists developed a catering dry for military purposes
Cooperation of scientists and entrepreneurs. Innovations. Excellence

Agricultural and industrial building projects
“Vimbas MF” Ltd

Wooden pallets strength prediction
SIA “MARKO KEA”
Pneumatic energy driven car – FoE project
(Pneumobil competition, Eger, Hungary)
International Cooperation - Studies

• NOVA-BOVA network (various intensive courses and mobility)
• NORDPLUS– express and long term mobilities; intensive courses
• Foreign students can choose between 270 study courses from 8 faculties
• Summer schools (e.g., „Lifecycle – from forest till high ecological value wood products“)
• Cooperation agreements (54) with 22 countries worldwide
• Member of 40 international organisations and networks
International Cooperation - Studies

• Erasmus+ Programme, Key Action 1: Learning Mobility of Individuals:
  - KA103 - Higher Education Student and Staff Mobility within Programme Countries, 145 partner universities
  - KA107 – Higher Education Student and Staff Mobility between Programme and 8 Partner Countries, 12 universities
  - Exchange students can choose between 270 study courses from 8 faculties

• Erasmus+ projects:
  • «Higher Education for Central Asia Food Systems and Standards»
  • «Cooperation for Innovation and the Exchange of Good Practices». 
International students are welcome to study:

<table>
<thead>
<tr>
<th>Full-time Bachelor study programmes</th>
<th>Second-level Professional Higher Education Study Programme</th>
<th>Joint master programme</th>
<th>Full-time Master study programmes</th>
<th>Full-time Doctoral study programmes</th>
</tr>
</thead>
</table>
| - Computer Control and Computer Science  
- Economics  
- Information Technologies for Sustainable Development  
- Sociology of Organizations and Public Administration  
- Landscape Architecture and Planning | Veterinary Medicine | Agri- food Business Management | - Agricultural Engineering  
- Business Management  
- Career Counsellor  
- Information Technologies  
- Food Hygiene  
- Food Science  
- Landscape Architecture  
- Sociology of Organizations and Public Administration | - Agrarian and Regional Economics  
- Agriculture  
- Agricultural Engineering  
- Civil Engineering  
- Environmental Engineering  
- Food Science  
- Forest Science  
- Information Technologies  
- Landscape Architecture  
- Pedagogy  
- Veterinary Medicine  
- Water Engineering  
- Wood Materials and Technology |
## Values

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
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<tbody>
<tr>
<td>Financial resources for scientific research, thous. EUR</td>
<td>2828</td>
</tr>
<tr>
<td>Scientific publications, total, Scopus and Web of Science indexed scientific publications</td>
<td>869</td>
</tr>
<tr>
<td>Patents, licences</td>
<td>24</td>
</tr>
</tbody>
</table>

## Project type, 2017

<table>
<thead>
<tr>
<th></th>
<th>No.</th>
<th>thous. EUR</th>
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</thead>
<tbody>
<tr>
<td>International research projects: FP-7, Bonus, Eranet, EBRD, Nordplus, etc.</td>
<td>33</td>
<td>1 137</td>
</tr>
<tr>
<td>Latvia state research grants</td>
<td>10</td>
<td>623</td>
</tr>
<tr>
<td>Ministry of Agriculture grants</td>
<td>19</td>
<td>468</td>
</tr>
<tr>
<td>University internally financed research grants</td>
<td>21</td>
<td>149</td>
</tr>
<tr>
<td>Commercial research</td>
<td>68</td>
<td>389</td>
</tr>
</tbody>
</table>
Cooperation of scientists and entrepreneurs. Innovations. Excellence

Institute of Agricultural Resources and Economics

Institute of Horticulture
• **Well known international conferences (Scopus and Web of Science indexed proceedings):**
  – Research for Rural Development
    • [http://www2.llu.lv/research_conf/](http://www2.llu.lv/research_conf/)
  – Engineering for Rural Development
  – Research for Environment and Civil Engineering Development
  – International Conference on Safety and Durability of Structures
  – Baltic Conference on Food Science and Technology «FOODBALT»
  – International scientific methodical conference "Baltic Surveying"
  – Baltic Agronomy Forum
  – Research and Practice in Veterinary Medicine
  – Economic Science for Rural Development
  – Rural Environment, Education, Personality
Research and publicity

- Scientific journals:
  - Rural Sustainability Research
  - Baltic Journal of Modern Computing
  - Harmonious Agriculture
  - Baltic Surveying
Jelgava – the capital of students in Latvia!

Looking forward to cooperate!
Bioeconomics is the password!
Thank You!

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