



UNIVERSITY
OF LIFE SCIENCES
Iasi 1842

UNIVERSITATEA DE ȘTIINȚELE VIETII IAȘI
Iasi University of Life Sciences



Faculty of **AGRICULTURE**

www.iuls.ro

Faculty of AGRICULTURE

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PhD, Prof.
Florin-Daniel LIPSA

DEAN'S MESSAGE

I welcome you to the Faculty of Agriculture, Iasi University of Life Sciences, Romania, one of the best institutions for education, research, extension, and outreach in agriculture, food sciences, environmental health, natural resources, and much more.

The Faculty of Agriculture has many academic programs that provide students with the real-world training needed to address critical social issues. Teaching, training, and research are done in an innovative and vibrant center of scientific and technological excellence. The Faculty of Agriculture's main goal is to unlock the creative and inquisitive potential of our students through education, research, and strategic partnerships relevant to the agricultural needs of society. Staff and students have direct access to state-of-the-art infrastructure and equipment related to ongoing research projects. At our faculty, we provide students with a practical education that prepares them for careers in various industrial, institutional, and multinational corporations and to become leaders in a complex market. There is an increasing demand for

graduates with degrees in agriculture and related fields, and the Faculty of Agriculture is here to meet that demand. The educational programs and research activities contribute immensely to strengthening the competitiveness of the agricultural and food sectors. The graduate diplomas of our faculty are internationally recognized, thus ensuring the global mobility of our graduates.

World-class research facilities, excellent training opportunities, and established relationships with alumni and industry partners mean that our graduates are at the top of their field. We have a clear vision for the future and are prepared to meet the needs of our changing world.

As dean of the Faculty of Agriculture, I am so fortunate to spend my days working with enthusiastic students, passionate faculty and staff, and a community that shares our commitments and values. Thank you for being part of the IULS community.

Kind regards,
Prof. dr. Florin-Daniel LIPSA

BRIEF

HISTORY AND MISSION

BRIEF HISTORY

The agronomic higher education in Iasi has been active since 1912, when the Section of Agricultural Sciences of the Faculty of Sciences of “Al. I. Cuza” University of Iași was founded, with a duration of studies of 3 years.

Starting in 1933, the Section of Agricultural Sciences becomes the Faculty of Sciences of the “Al. I. Cuza” University of Iași, located in Chișinău, which dissolves after the occupation of Basarabia in 1940 by the former USSR.

MISSION

The main mission of the Faculty of Agriculture is to train specialists in one of the most complex domains of the national economy. They will gain rich theoretical and practical training, making them capable of managing the current complex issues in Romanian and international agriculture.

Furthermore, their acquired knowledge will enable them to take on positions in management, marketing, machine exploitation, plant protection, and so on. Both the training and the practical work are anchored in the current legislation in

The Faculty is founded again in Iași in 1941, and following the higher education reform in 1948, the Agronomic Institute of Iași is founded. In 1992, the Agronomic Institute of Iași became the University of Agronomy and Veterinary Medicine in 2021, changing its name to the Iasi University of Life Sciences. The Faculty of Agriculture is one of the four faculties functioning within the “Ion Ionescu de la Brad” Iasi University of Life Sciences.

the field of agriculture as well as in European requirements and standards.

The students are also trained for the research activity, as well as for pedagogy and teacher training, in order to prepare them for pre-higher education and the higher education system. The faculty’s mission is attained through continuous training programs for Master and PhD studies, other postgraduate specializations, and training within the Teacher Training Department.



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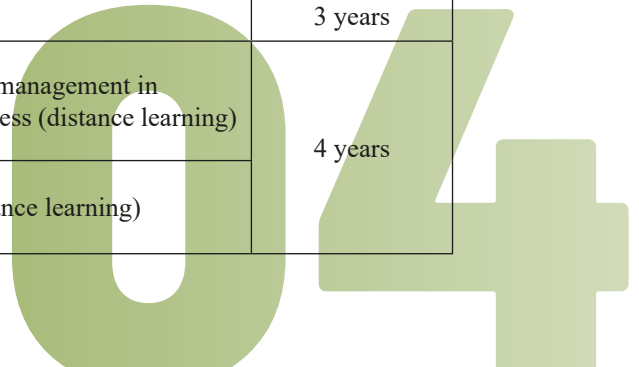


ACADEMIC PROGRAMS AND RECOGNITION OF STUDIES

BACHELOR STUDIES

The Faculty of Agriculture offers seven full-time bachelor programs of study, each with a different specialization, with a duration of 4 years of study (with the exception of Biology, which is only 3 years of study), conducted in the Romanian language. There are also two distance-learning bachelor programs of study with a duration of 4 years.

Level of the program	Domain	Specialisation options	Duration of the program
1st (BA)	Agronomy	Agriculture Mountain farming Farm and food machinery engineering	4 years
	Engineering and management in agriculture and rural development	Engineering and management in agricultural business	4 years
	Food engineering	Agro-product processing technology Consumer and environment protection	4 years
	Biology	Biology	3 years
	Engineering and management in agriculture and rural development	Engineering and management in agricultural business (distance learning)	4 years
	Agronomy	Agriculture (distance learning)	





ACADEMIC PROGRAMS AND RECOGNITION OF STUDIES

MASTER STUDIES

MASTER STUDIES

The Master programs of study include 11 different specializations, each spanning a duration of two years, and are delivered in the Romanian language.

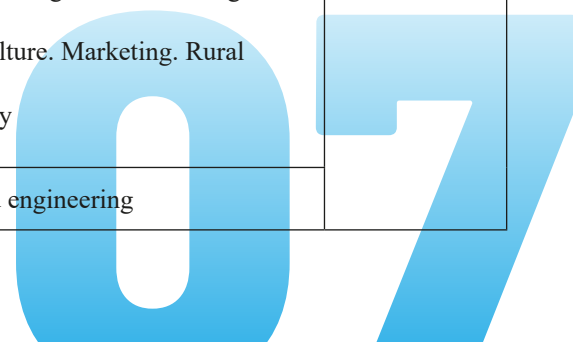
Level of the program	Domain	Specialisation options	Duration of the program
2nd (MA)	Agronomy	Soil management and conservation Production of seed and planting material Organic farming technologies Modern agricultural technologies	2 years
	Engineering and management in agriculture and rural development	Agribusiness and business administration Rural development management Management in food service and agritourism Agricultural management and audit	
	Food engineering	Food chain expertise Food safety and consumer protection Advanced processing systems and quality control of agri-food products	



The PhD programs include 18 specializations, with a duration of 4 years of study, conducted in the Romanian language.

PHD STUDIES

Level of the program	Domain	Specialisation options	Duration of the program
3rd (PhD)	Agronomy	Agricultural techniques Exploitation of Land Improvement Systems Plant Protection Microbiology Crop science Plant physiology Farm machinery Forage Production and Storage Botany Genetics	4 years
	Engineering and management in agriculture and rural development	Management. Farm management Marketing in agriculture Rural Economy Financial Management in Agriculture. Management of the Environment Management in Agriculture. Marketing. Rural Development Audit and Sustainability Agricultural Economy	
	Food engineering	Unit operations in food engineering	



STUDY AND RESEARCH FACILITIES

The Faculty of Agriculture offers spaces for learning, practice, and research, represented by a variety of modernized seminar rooms, lecture halls, and laboratories, all equipped according to the specific training requirements in the fields of agronomy, food engineering, biology, and engineering and management in agriculture and rural development. These spaces provide a learning and research environment for both small and large groups of students, allowing for both general and applied activities.

RESEARCH FACILITIES

The faculty's research directions and objectives, as well as the established research thematic areas for agronomy, food engineering, biology, and engineering and management in agriculture and rural development at a national and European level, guide the research activities of the academic staff and Bachelor, Master, and PhD students. The faculty conducts both

fundamental and applied research within its own laboratories and research facilities. Additionally, research projects involving mixed research teams, which involve national and international collaboration, are also conducted in the research facilities of partner institutions.

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SCIENTIFIC RESEARCH

Academic staff and students conduct their research in accredited research centers, which house specialized laboratories outfitted with cutting-edge technology.

- the Institute of Research for Agriculture and Environment (www.icamiasi.ro)
- the Plant and Soil Analysis Laboratory
- the Laboratory for Genomics and Biotechnologies (Agro-BioGen)
- Laboratory of Research for the Mechanization of Agriculture and the Food Industry

The Institute of Research for Agriculture and Environment is equipped with state-of-the-art research infrastructure, as X-ray micro computed tomography (μ CT) and GS/HPLS to answer fundamental

research questions in the frame of soil sciences and environmental impacts on crops.

The Laboratory for Genomics and Biotechnologies (Agro-BioGen) major research directions are focused on development of new genomic techniques (NGTs) and advances biotechnologies (as genomic selection and Speed Breeding) that aim to shorten the cycle of genetic improvements of agronomic important crop genomes.

DIRECTIONS OF RESEARCH

Students have access to a 3D-Advanced Visualization Center, which makes possible a three-dimensional simulation of the biological phenomena studied at the Faculty, offering students a better understanding of the theoretical aspects they are studying.

The scientific research has both a fundamental character and an applicable character, pursuing innovation and technological transfer according to present and future requests and needs in the field of agronomy, food engineering, biology, and engineering and management in agriculture and rural development, both at a national and European level. The Institute of Research for Agriculture and Environment is equipped with state-of-the-art research infrastructure, as X-ray micro computed tomography (μ CT) and GS/HPLS to answer fundamental research questions in the frame of soil sciences and environmental impacts on crops.

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techniques (NGTs) and advances biotechnologies (as genomic selection and Speed Breeding) that aim to shorten the cycle of genetic improvements of agronomic important crop genomes.

Some of the main research directions are:

Fundamental research:

- fundamental genetics and plant physiology research,
- evolution of soil and environmental quality in hydro-ameliorative works,
- creation of new lines, varieties, and hybrids of high quality, productivity, and resistance to diseases, pests and unfavorable environmental factors.

Technological research:

- digital technology for Agri-food system,
- perfecting the agricultural technologies for the main cultivated crop species,
- ecological implications of the superior use of agricultural lands in hilly areas,
- integrated disease and pest control,
- complex use of natural, non-polluting substances obtained from aromatic and medicinal plants.

Food engineering research:

- reducing food waste by utilizing byproducts from slaughterhouses to create functional products,
- valorizing horticultural by-products in dairy processing: innovations in sustainable cheese production,
- potential of unconventional by-products as ingredients or additives in beer production,
- development of innovative functional food products from plant extracts and by-products/waste under the perspectives of climate change and circular economy.

Economic research:

- project management and European identity,
- crop, livestock and fish value chain management,
- agripreneurship and product development
- optimization of the agricultural production structure by agricultural systems.



INTERNATIONAL RELATIONS OFFICE

Over the years, the Faculty of Agriculture has established solid partnerships with European universities as well as universities from all over the world. These partnerships provide students and academic staff with opportunities for study and training, teaching, and research work abroad.

You can access the main opportunities for an internship, student exchange, or training abroad through:

- the AUF (Agence Universitaire de la Francophonie) – for scholarships, internships, and working opportunities;
- the IAESTE (International Association for the Exchange of Students for Technical Experience) for internships;
- mobilities financed through DAAD (German Academic Exchange Service) in cooperation with IAESTE;
- cooperation agreements with international partner universities

allowing short-term mobility of study, training, and research;

- the Erasmus+ program for mobility of study and training.

The International Relations Office offers guidance and assistance to all incoming and outgoing students and academic staff, as well as information on all possible opportunities for international mobility.

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INTERNATIONAL RECOGNITION AND DOCTOR HONORIS CAUSA PERSONALITIES



**PhD, Prof. Dr.
Rod SNOWDON**
holder of the honorary title
of
Doctor Honoris Causa
granted by IULS

PhD, Prof. Rod SNOWDON, Professor at Justus Liebig University of Giessen, Germany, received the honorary title of Doctor Honoris Causa from the Faculty of Agriculture of Iași on May 9, 2023.

The award ceremony was held at Iași University of Life Sciences (IULS) in the presence of the Rector, PhD, Prof. Gerard JIȚĂREANU, as well as of fellow professors and students of IULS.

PhD, Prof. Rod SNOWDON, one of the elite professors and researchers at the Justus-Liebig-University of Giessen, leads a group of researchers studying topical topics such as plant genomics, quantitative trait dissection, and breeding of major crop species such as oilseed rape, sorghum, and wheat. He also collaborates with many international partners in excellent research consortiums on crop genomics. Currently, its group of collaborators includes three senior researchers, nine postdocs, 21 PhDs, and technical and administrative staff. In addition to classical genetics and molecular

breeding, their research focuses on automated phenotyping, digitization, next-generation genotyping, and the implementation of the latest DNA sequencing, bioinformatics, and artificial intelligence technologies for the analysis, prediction, and dissection of complex genetic traits. “It is a great honour for the University of Life Sciences of Iasi to recognize with this title the work of Professor and his outstanding contribution to the development, consolidation, and internationalization of agricultural higher education”, said Prof. Denis Țopa, Dean of the Faculty of Agriculture of USV Iasi, mandate 2020-2024.

At the same time, Prof. Rod SNOWDON is an “Honorary Professor” at the University of Queensland, Brisbane, Australia; at Hunan Agricultural University, Changsha, China; and at the University of Agriculture, China.





PhD, Prof. Martin H. H. GERZABEK,
holder of the honorary title
of Doctor Honoris Causa
granted by IULS

PhD, Prof. Martin **GERZABEK**, Professor at the University of Natural Resources and Life Sciences, Vienna, Austria, received the honorary title of Doctor Honoris Causa from the Faculty of Agriculture of Iași on October 25, 2012. The award ceremony was held in the “Haralamb Vasiliu” Great Hall of Iasi University of Life Sciences (IULS) in the presence of the Rector, PhD, Prof. Vasile VÎNTU, as well as of fellow professors and students of IULS. Prof. Martin GERZABEK was clearly moved by the occasion, feeling “grateful for this outstanding honor” and declaring that receiving the honorary title of Doctor Honoris Causa from IULS “was an extraordinary honor to receive the title of an DHC from your renown university covering almost all aspects of life science, including even mountain research, which is also strong at our university.”

After asking him about the values and principles that have guided him on his academic and professional path, he replied that he always strived to be “an enabler, not just a leader—empowering others to achieve

optimum performance, to work as hard or harder than I would demand from others, to see the content at the center, not politics, and to stay with science, research, and teaching notwithstanding the position I had to fill.”

Finally, we have asked Prof. GERZABEK to tell us what he thinks might encourage students to pursue the programs offered by our University, to which he wisely answered that the “field of life sciences is one of the most important fields in the decades to come,” taking into account all the problems and challenges that our world faces, and he graciously added that IULS “graduates of the programs of the university are well trained to master the mentioned problems and to become driving forces in economy, administration, and research.”



On October 25, 2012, Prof. Joybrato MUKHERJEE, PhD, Rector of the University of Cologne received the honorary title of Doctor Honoris Causa from the Faculty of Agriculture of Iași.

The award ceremony was held in the “Haralamb Vasiliu” Great Hall of the Iasi University of Life Sciences (IULS) PhD, in the presence of the Rector, Prof. Vasile VÎNTU, as well as of fellow professors and students of IULS.

Prof. Joybrato MUKHERJEE was clearly moved by the occasion, declaring that for him, it “has always been—and continues to be—vital to have a reputation as a good researcher in my own area—and the honorary degree awarded by IULS is a most welcome indication of this.”

Having asked him about the values and principles that have guided him on his academic and professional path, he answered that for him, serving a higher purpose is not primarily serving one’s own interests—as a researcher, it was all about serving the linguistic sciences; in university administration, it is about serving the interests of my own



PhD, Prof. Joybrato MUKHERJEE, holder of the honorary title of Doctor Honoris Causa granted by IULS

institution at large; and as the Vice President of the German Academic Exchange Service (DAAD), it is about serving the interests of Germany in a globalized world in which we need partners and friends.”

Finally, we have asked Prof. Joybrato MUKHERJEE to tell us what he thinks might encourage students to pursue the programs offered by our university, to which he answered that “IULS is a prestigious institution with an international outreach and a clear focus on excellence in research and teaching, as well as a clear focus on international exchange and playing a key role in European higher education”.

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CAMPUS LIFE

IULS students have a variety of opportunities to participate in academic activities, as well as activities that allow them to express their creativity and interact with other international students (such as fellow Erasmus students and visiting students).

Some of the events and activities organized for students are:

- the Student Scientific Symposium (in April)

- Every year, IULS organizes the Student Scientific Symposium, in which students from all four faculties, coordinated by their professors, present scientific papers and works. First-year students, as well as any other students from all specializations, are welcome to participate. Students are welcome to participate either directly, as presenters, or as part of the audience.

- the Scientific Congress with international participation (in October)

- IULS has been organizing every year the Scientific Congress

with international participation, where professors from partner universities as well as professors from IULS hold scientific presentations; seminars are also organized within each faculty, to which all students and academic staff are invited; the university also organizes a fair for agricultural products, as well as expositions for different types of equipment (agricultural and animal sciences oriented).

- contests throughout the year (cooking contests, seminars, photo contests, etc.).

- presentations of recruiting companies (for all areas of work, such as agriculture, horticulture, animal sciences, and veterinary medicine).

- Students have the opportunity to see what companies are looking for IULS graduates, what their requirements are for hiring new graduates as well as students (for summer internships), what jobs are available for short term and long-term periods, etc.

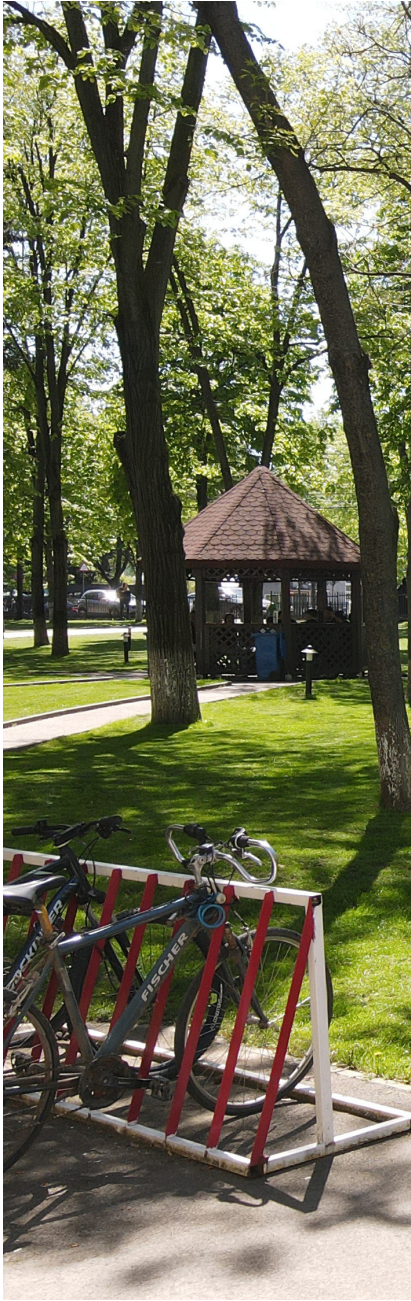
- seminars or lectures held by visiting professors from partner universities.

- meetings with the “IULS Foreign Students Network” club for all our international students.

- The purpose of this club is to facilitate communication among the international student community at IULS, which includes veterinary students in the English section, Erasmus+ students, and visiting foreign students studying in Romania.
- The meetings are held at the university, but students can also participate in virtual discussions by following the “IULS Foreign Students Network” Facebook group, which is a closed group based on membership requests.

These events and activities, as well as others that students may benefit from, are announced on the Facebook group (IULS Foreign Students Network) as well as on the university’s official website.





ADMISSION



**IULS offers study programs in Romanian and English.
The Faculty of Veterinary Medicine offers courses in
both Romanian and English.
The other three faculties offer programs of study in
Romanian only.**

If students wish to study at the Faculty of Agriculture in Romanian, they may take a preparatory year of Romanian and then participate in the admission session, along with the Romanian students, in order to be accepted into the program of study of their choice.

After finishing the preparatory year of Romanian and obtaining the language certificate (B2 level), students

may participate in the admission session organized by the faculty, along with the Romanian students.

The Faculty of Agriculture organizes the admission session in the summer (July). In case there are any places left available, a second admission session may be organized in the autumn (September).

The dates and deadlines of the admission process will vary from year to year, but generally, the summer admission is organized in the last 2 weeks of July and the autumn admission in the first week of September.

Students who wish to apply are kindly asked to check the university's website or contact the International

Relations Office (bri@iuls.ro or 004 0232 407 413) and ask about these dates.

Resources for Admission

Candidates who wish to apply may use the following resources:

1. The Faculty's web page: <http://www.iuls.ro/agricultura/>
2. The University's web page for admission: <http://www.iuls.ro/admission/>

UNIVERSITATEA DE ȘTIINȚELE VIETII IASI Iasi University of Life Sciences

UNIVERSITATEA DE ȘTIINȚELE VIETII IASI
DESCHIDERE A ANULUI UNIVERSITAR
2023-2024
13 septembrie 2023, ora 10:00

USV

University Parks

UNIVERSITATEA DE ȘTIINȚELE VIETII IASI
FACULTATEA DE AGRICULTURĂ



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