

FACULTY OF AGRICULTURE

The Faculty of Agriculture of the University of Szeged is located in Hódmezővásárhely, in a town with county's rights in South-East Hungary, 25 kilometres away from the centre of Szeged, which distance can be covered by public transport in 45-50 minutes depending on the traffic.

Our BSc programme includes all knowledge and subjects that are required to become an excellent agronomist.

Students can choose from a broad range of subjects that are available in English in the given semester.

Among our basic studies, you can acquire knowledge in the field of mathematics, chemistry, biochemistry, physics, information technology, statistics, technology, general zoology, botany, basic studies in agriculture, health and safety at work, economics, anatomy and animal physiology, plant physiology, genetics, soil science, agro-chemistry, microbiology, agricultural biotechnology, water management, agro-meteorology, business law, international agriculture, EU agricultural policy.

The professional corporal material is composed of ecology, land cultivation, animal production, animal nutrition, animal hygiene and animal health, plant breeding, plant production, horticulture, forestry and wildlife management, agricultural product manufacture, agricultural environmental management, sowing seed production, grassland management, plant protection, basic integrated plant production, agricultural economy, farm business management, human management, agricultural marketing, accountancy and finance, quality assurance, business organisation.

Professional practical knowledge can be gained on the pilot farm of the faculty, at various enterprises or research institutes under the guidance of designated supervisors.

Students from Indonesia are welcome to participate in any of our events organised for our students (International Banquet, Hungarian Great Plain Animal Husbandry and Agricultural Days Exhibition and Fair, factory visits and so on).

Courses Offered for IISMA 2023 Awardees

Course Code	Name of Course	Short Description	ECTS Credits	Max No of Students
EMG17431_th	Agricultural Economy	The overall aim of teaching the subject is to provide basic knowledge for agricultural engineer students about the characteristics of the economic problems in the agricultural sector, the essence and major elements of the agricultural policy with special regard to the circumstances of Hungarian agriculture. It is particularly important in today's era to have agro-economics knowledge based on the theories of modern agricultural economics, and also to know about the agro-ecological practices, experiences and ideas for the future dissemination of the developed market-economy countries. This is compared to the characteristics of the Hungarian agriculture, so evaluating our situation, the potential and limitations of the agricultural economy in the future development process.	2 ECTS	10

EMG17411	Farm Business Management I.	The course deals in detail with the essence of the businesses, the basic concepts of economic decisions, and the decision-making principles. Its main topics are the economic content of the enterprise (business) interest, property interest; the types of companies together with company outcome measures and the design principles of the organizational structure. The system of corporate resources and their economic characteristics, businesses and their relationship with the environment. After providing the basic knowledge, the subject introduces students to the characteristics of the agricultural enterprises. In the end, the subject deals with the economy and the organization of the different plant production sectors (cereals, industrial crops, fodder crops and plantation sectors).	3ECTS	10
EMG17201	Agricultural biotechnology	This course provides knowledge about the basics of genomics (genomanalysis) and the molecular plant selection based on genomics as well as the most significant molecular biological methods. It gives insight into the plant and animal reproduction biotechnology, the basics of the gene technology, the transgenic plants and animals important from economic point of view, and also the risk factors and ethical problems of producing transgenic plants and animals.	2 ECTS	
EMG17441	Farm Business Management I.	The course deals in detail with the essence of the businesses, the basic concepts of economic decisions, and the decision-making principles. Its main topics are the economic content of the enterprise (business) interest, property interest; the types of companies together with company outcome measures and the design principles of the organizational structure. The system of corporate resources and their economic characteristics, businesses and their relationship with the environment. After providing the basic knowledge, the subject introduces students to the characteristics of the agricultural enterprises. In the end, the subject deals with the economy and the organization of the different plant production sectors (cereals, industrial crops, fodder crops and plantation sectors).	3 ECTS	
EMG17411	Plant Protection	Within the framework of lectures the students will be introduced in the basic concepts of plant pathology and through the presentation the major crops diseases they will know about its importance, about the life of disease-causing pathogens and their environmental demands, and ultimately about the traditional and modern procedures of disease control. Students will also learn about the pests of the major crops and vegetable cultures and the possibilities of protection against them. Special emphasis is placed on describing the agro-environmental impact of the different protection methods.	2 ECTS	
EMG17221	Agrometeorology	The objective is the students will be acquainted with the physical condition and the processes (climate, weather) of the atmosphere as a natural resource and its connection to the agricultural activity with special regard to plant production. Furthermore, the course will deal with meteorological phenomena and the changes of the climate (primarily that of Hungary). We also aim to get students acquainted with all the possibilities to utilise natural resources and they can reduce the harmful meteorological effects. They will also learn about the global problems of the atmosphere and their impact on agricultural production.	3 ECTS	

EMG17291	Animal Nutrition	The objective of the course the students can follow the process of nutrients transforming into animal products and they also get to know the ways and methods of healthy and economic animal nutrition. Students will learn about the chemical components of foodstuff, the rules of feeding, the method of conservation and storage as well as the role of nutrition in animal safety. They will get to know the sample-taking and ranking methods, the nutrient-value calculation and the way of composing daily ratio for animals. This course provides theoretical as well as practical base to understand other subjects related to animal production.	3 ECTS	
EMG17081	Basic Studies in Agriculture I.	During this course, the students will learn about the most important plant cultures, animal species, production factors and the relating basic concepts, work procedures and tools, particularly in farm conditions. Students should be trained to be able to do all the work processes themselves in order to operate the up-to-date techniques. They will also be able to apply their knowledge according to the ever-changing requirements on small private farms or on large-scale farms as well as in the agricultural administration. They should be open to accept the new and modern knowledge and to adapt the latest technologies on the highest level.	2 ECTS	
EMG17071	Botany	The objective is to present the structure of plant organs, the taxonomical places of the most important cultures and weeds, their morphological characteristics and the unity of the plant and its environment. During the practice course, the microscope-techniques are presented as well as the plant species, which are significant in agricultural and horticultural production and also in forestry. This course provides theoretical basis to the better understanding and utilization of the other subjects dealing with botany.	3 ECTS	
EMG17231	Business Law	The objective if the course is the following: students get to know the basic concepts of the state and legal theory, the state and the law, the legal structure, branches of law and the legal system, the source of law, the elements and structure of legal relations. The Constitution of Hungary: the system of state bodies, the distribution and balance of powers, citizens' fundamental duties and rights, the right to vote, the administrative proceedings. The basic regulations for economy, the ownership, the companies' law, the basics for contract law. The basic task of the subject is to provide an overview of the most essential legal knowledge, as well as to familiarize the students with the public and legal institutions, which is essential for them to become intellectuals.	1 ECTS	
EMG17041	General Zoology	The objective is that students learn about the animal species they might most often see during their activities in plough-lands, in gardens and horticultural enterprises, in agricultural buildings and around, in ponds and forests. The subject also deals with the biology of the chosen species, about their ecological demands and their role in agricultural production and also about the most frequent protected species.	3 ECTS	