Faculty of Agriculture

Food Technology

at Faculty of Agriculture, 6 Nemanjina, 11080 Zemun, www.agrif.bg.ac.rs

ECTS: 60/ LANGUAGE OF INSTRUCTION: SERBIAN/ DEGREE: SPECIALIST

Study program content

The study program of specialized academic studies lasts for 1 year that is 2 semesters. In the first semester students attend the common bases for all elective groups - modules, which are comprised of 4 obligatory courses. Concerning the methods of teaching, ex cathedra lectures, laboratory sessions and methods of interactive teaching as well as research work are used. Producing seminar papers and keeping a research diary are envisaged, too. A special focus, regarding active teaching and learning, is put on discussion, cooperative learning, teamwork for research paper, organization of teamwork and qualifying for independent problem solving in the processes of food production.

Within each course of the study program of specialized academic studies obligatory continuous monitoring of the acquisition of knowledge and skills is envisaged during the semesters though tests and knowledge tests as well as through a final examination at the end of the semester.

Study program goals

The main goal of specialized study program is expert with high level of fundamental and applicable knowledge of the fields of food microbiology, food chemistry and different food technologies of plant and animal products whose diploma will enable students to lead different programs in production and control of food products, to introduce innovations and contribute to the development of food technology and its harmonization with European standards.

Study program outcomes

Upon the completion of these studies, the student should be qualified for implementation of microbiological methods of the analysis of food products, chemical methods of analysis of food, organizing the input process and final product quality control of selected technology of plant or animal products, has extended knowledge of the field of microbiological food safety, chemical analysis of food, management and safety in the production of food and selected food technologies. Development of competences required for solving concrete problems in food production.

They will be qualified for independent and team work, inclusion in the management processes of production, organization of the control of product quality of selected technology, implementation of legislation in the processes of production organization and management of team work. The student will acquire knowledge and skills needed for work with real, complex samples and will develop competences in understanding problem and its solving. Students will be able, within independent and team work, to process the corresponding problem, and statistically process the results and present them in the specialist's thesis as well as orally defend their work.

Modules

The program of specialized academic studies Food Technology comprises four Elective areas – modules:

1. Technology of plant products
2. Technology of animal products
3. Food chemistry
4. Technological microbiology

Admission requirements

The candidate who completed master academic studies is eligible to enroll in the first year of specialized academic studies.

Contact

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Zootechnics

at Faculty of Agriculture, 6 Nemanjina, 11080 Zemun, www.agrif.bg.ac.rs

ECTS: 60/ LANGUAGE OF INSTRUCTION: SERBIAN/ DEGREE: SPECIALIST

Study program content

The study program of specialized academic studies – Zootechnics lasts for one year that is two semesters. The program is comprised of a total of 23 (+1 – specialist's thesis) courses, namely: 1 obligatory and 22 elective courses. The programs of all courses are defined in a way they describe modern scientific, technical and practical achievements of the given area, but in a way they are acceptable and applicable to this level of a higher education.

Teaching in the study program is organized through: lectures, sessions, field practices, seminar papers and interactive teaching. Methods of interactive teaching in the study program include individual, group and cooperative methods of active learning. Interactive methods are used in the classroom and out of it (in the equipped library and computer centre, at home) within individual or group work. Within each course of specialized academic study program, a continuous monitoring of acquiring knowledge and skills of students is envisaged during the semester by using tests and knowledge tests and a final exam at the end of the semester.

Study program goals

The main goal of the study program of specialized academic studies – Zootechnics is to enable students to acquire the latest scientific and specific technical knowledge and skills, knowledge of methodology of research in zootechnics, knowledge of independent solving of practical and theoretical in the field of zootechnics, following modern trends and biotechnological achievements in zootehnics in the world, application of adequate methodology of processing and analysis of data in zootehnics, as well as to organize and implement development research in the field of livestock production. The second important goal is continuous and comprehensive development of all aspects of animal husbandry profession based on modern principles and standards. The study program offers possibilities for acquisition of various technical and practical knowledge of all branches and areas of livestock production, such as breeding farm animals, fish and wildlife, production of meat, milk, eggs and other animal products. The study program is aimed at directing studies towards the acquisition of knowledge and skills necessary for profitable livestock production by taking advantage of renewable natural resources, along with environmental protection, conservation of the resources of rural areas and cultural heritage.

Study program outcomes

A student of specialized academic studies, having acquired knowledge, is provided with expertise and competence to work in:

- Agricultural work organizations, such as agricultural combines, cooperatives, specialized livestock farms and horse farm, hatcheries, associations, clubs, feed mills, companies for manufacturing and trading of equipment and other products for livestock production, veterinary institutes, professional and raw materials division in slaughterhouses and dairies, business organizations of special purpose (racecourse, centers for training of some species of domestic animals, etc..), and other organizations included in production and processing of livestock products;
- Entrepreneurial organizations and individual farms, which are involved in the production of domestic and raised animals;
- Hunting areas and production centers of wildlife, fisheries;
- Advisory and technical services;
- Scientific and research institutions;
- Banks and insurance companies;
- Secondary education, etc.

Admission requirements

The candidate who completed master academic studies is eligible to enroll in the first year of specialized academic studies.

Contact

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Agricultural Sciences

at Faculty of Agriculture, 6 Nemanjina, 11080 Zemun, www.agrif.bg.ac.rs

ECTS: 180/ LANGUAGE OF INSTRUCTION: SERBIAN/ DEGREE: PHD

Study program content

Study program Agricultural Sciences of doctoral academic studies lasts for 3 years that is 6 semesters.

The first year represents a common basis, whereas in the second year the courses are related to the one of 6 modules. The third year is devoted to working on a doctoral dissertation.

The number of ECTS credit points for each semester is 30 (total of 180 ECTS). A study program comprises 1 obligatory course and elective courses in 7 positions. For each position of the elective course, students are offered a list of courses they can choose. A doctoral dissertation is worked on during the three years of the study program.

In the first semester of the common basis a student enrolls on one obligatory and two elective courses (elective courses 1 and 2), from the offered seven (total 14) methodological courses.

In the second semester, there are two elective general courses, which can be chosen by the students of all modules. The list of 16 and 15 (total 31) is offered for each elective course.

Study program goals

The goals of the study program Agricultural Sciences of doctoral academic studies comprise achieving the scientific competences and acquiring the academic skills in the scientific disciplines the student opted for, developing of creative competences and special, practical skills needed for the future career development. The goals are in accordance with the modern courses of corresponding scientific discipline development in the world and they are compatible with the basic tasks and goals of the Faculty of Agriculture, as a higher education institution where the program is implemented.

The goal of this study program is education and training of students for the research in the field of technical and technological sciences (biotechnological sciences).

The main goals of the study program are to establish standards, criteria and methodology of the research work. Students enrolled in this level of study have to know the techniques of using modern scientific literature in the world, its understanding, application, qualification, and the final purpose of the study program is their training for independent scientific work, success and excellent presentation techniques as well as publishing the results of that work.

Study program outcomes

After completing studies, students at this level of education have the following general and course-specific competences:

- Competence in analysis, synthesis and predicting solutions and consequences of the concrete problems of the academic discipline;
- Competence in skills and modern methods of research in technical and technological field;
- Ability to use information and communication technologies for obtaining knowledge of corresponding area;
- Competence in thorough knowledge and understanding of science and profession of technical and technological field;
- Competence in the independent research of theoretical and practical problems for the purpose of obtaining new and better results and their application;
- Ability to connect knowledge of different fields acquired at the earlier levels of education, for the purpose of developing new technologies;
- Ability to design own experiment, or repeating already defined and, in the literature, described procedure of measuring, making assumptions and characterization of the expected measurements, conducting the acquisition of measuring, carrying out their statistical and methodological analysis and making final decision on veracity, significance and meaning of the established procedure of measuring;
- Ability to monitor and implement innovations in the field;
- Competence in teamwork and professional

communication for the purpose of improving science and profession;
- Competence in communication and cooperation with closer social and international environment;
- Ability to present the results of scientific research at scientific conferences and to publish in scientific journals, or display through patents and new technical solutions;
- Ability to contribute to expanding limits of knowledge in the field by conducting original research and especially by the results obtained by working on doctoral dissertation;
- Ability to participate in domestic and international research projects;
- Competence in critical thinking, creative and independent activity;
- Knowledge and respect of the principle of ethical code of good scientific practice.

Admission requirements

Admission requirements for doctoral studies are awarding of 300 ECTS credit points at the undergraduate academic and master academic studies as well as the grade point average at the undergraduate academic studies being at least 8 that is 7.5 along with publishing of a certain number of scientific papers worth of 5 points according to the criteria accepted by the Ministry of Science.

Contact

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Food Technology

at Faculty of Agriculture, 6 Nemanjina, 11080 Zemun, www.agrif.bg.ac.rs

ECTS: 180/ LANGUAGE OF INSTRUCTION: SERBIAN/ DEGREE: PHD

Study program content

Study program Food Technology of the doctoral academic studies lasts for 3 years that is 6 semesters.

The number of ETCS credits for each semester is 30 (total of 180 ETCS). A study program comprises 3 obligatory courses and elective courses in 3 positions. For each position of the elective course, students are offered a list of courses they can choose. In the first semester a student enrolls on three obligatory methodological courses.

In the second semester a student takes two elective scientific and technical courses. In both elective groups, lists comprising 3 courses each, within which a student chooses courses more closely connected with the area in which a dissertation will be done.

In the third semester a student enrolls on one elective course, which should be chosen from the list containing 20 courses. The area of the dissertation should be a part of this elective course.

Study program goals

The goals of the study program Food Technology of doctoral academic studies comprise achieving the scientific competences and acquiring the academic skills in the scientific disciplines the student opted for, developing of creative competences and special, practical skills needed for the future career development. The goals are in accordance with the modern courses of corresponding scientific discipline development in the world and they are compatible with the basic tasks and goals of the Faculty of Agriculture, as a higher education institution where the program is implemented. The goal of this study program is education and training of students for the research in the field of technical and technological sciences (biotechnological sciences).

Study program outcomes

After completing studies, students at this level of education have the following general and course-specific competences:

- Competence in analysis, synthesis and predicting solutions and consequences of the concrete problems of the academic discipline;
- Competence in skills and modern methods of research in technical and technological field;
- Ability to use information and communication technologies for obtaining knowledge of corresponding area;
- Competence in thorough knowledge and understanding of science and profession of technical and technological field;
- Competence in the independent research of theoretical and practical problems for the purpose of obtaining new and better results and their application;
- Ability to connect knowledge of different fields acquired at the earlier levels of education, for the purpose of developing new technologies;
- Ability to monitor and implement innovations in the field;
- Competence in teamwork and professional communication for the purpose of improving science and profession;
- Competence in communication and cooperation with closer social and international environment;
- Ability to present the results of scientific research at scientific conferences and to publish in scientific journals, or display through patents and new technical solutions;
- Ability to contribute to expanding limits of knowledge in the field by conducting original research and especially by the results obtained by working on doctoral dissertation;
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