



Faculty of Chemistry

Chemistry

at Faculty of Chemistry, 12-16 Studentski Trg, 11000 Belgrade, www.chem.bg.ac.rs

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

Study program content

Study program of doctoral studies in chemistry lasts for 3 years and has a workload of 180 ECTS credits. The program includes 6 elective (theoretical) courses (30 ECTS credits altogether) and 2 term papers (10 ECTS credits). In compliance with the practice at European universities, the doctoral studies are based on research work during all 3 years of studies. Research, literature overview and introduction to laboratory work (35 ECTS credits) are planned for the first year, and research, laboratory work and writing papers (75 ECTS credits) are planned for the second and third year, while writing papers, writing doctoral thesis and preparation for viva voce (30 ECTS credits) are planned for the sixth semester.

Within the scope of elective courses students will study the subject matter which they have not studied within the basic and graduate program, as well as selected chapters from the areas which they have studied during their basic and graduate studies but which are related to the topic of the doctoral thesis. Instruction is conducted through individual (supervised) work with students, or work in small groups of students.

Teaching methods are adequately adapted to the concept of doctoral studies (consultations, term papers, elaborating papers from original scientific literature). The program includes extensive, independent research work of a student on a scientific problem which results in scientific publications in renowned international journals in chemistry.

Experimental work is complex, and as a rule includes the application of a large number of complementary approaches, techniques and methods, and it is conducted in cooperation with laboratories/groups in the country and abroad.

Study program goals

The primary goal of this study program is to educate experts with high level of fundamental and

applied knowledge in various areas of chemistry, whose master's degree (along with the bachelor degree) will be recognized/accepted by all European institutions and which will enable students to find appropriate employment or to continue their doctoral studies in chemistry or related disciplines at Serbian or some other European universities.

Study program outcomes

Students will be able to independently and competently perform complex research work as a part of a team with the aim of solving relevant scientific problems in the field of chemistry and related disciplines. They will become familiar with working with the latest instruments which are used in chemical research laboratories and with their application. They will demonstrate their capacity to apply their knowledge in practice, especially in problem-solving and making new discoveries. They will be able to formulate hypotheses and design experiments to test them. They will be able to analyze a material and formulate concepts. They will be able to adapt to new situations and make decisions. They will be able to establish various types of scientific cooperation and communication in Serbian and English.

Admission requirements

Only students who have completed their basic and master academic studies at an appropriate faculty with GPA no less than 8.0 can be enrolled

Contact

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Biochemistry

at Faculty of Chemistry, 12-16 Studentski Trg, 11000 Belgrade, www.chem.bg.ac.rs

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

Study program content

Study program of doctoral studies in biochemistry lasts for 3 years and has a workload of 180 ECTS credits. The program includes 6 elective (theoretical) courses (30 ECTS credits) and 2 term papers (10 ECTS credits). In compliance with the practice at European universities, the doctoral studies are based on research work during all 3 years of studies. Research, literature overview and introduction to laboratory work (35 ECTS credits) are planned for the first year, and research, laboratory work and writing papers (75 ECTS credits) are planned for the second and third year, while writing papers, writing the thesis and preparation for the viva voce (30 ECTS credits) are planned for the sixth semester.

Within the scope of elective courses students will study the subject matter which they have not studied within the basic and graduate program (Ecological Biochemistry, Biochemistry of Food and Nutrition, Free Radical Processes in Biochemistry, Design and Development of New Drugs), as well as selected chapters from the areas which they have studied during their basic and graduate studies but which are related to the topic of the doctoral thesis. Instruction is conducted through individual (supervised) work with students, or work with small groups of students.

Teaching methods are adequately adapted to the concept of doctoral studies (consultations, term papers, elaborating papers from original scientific literature). The program includes extensive, independent research work of a student on a scientific problem which results in scientific publications in renowned international journals in biochemistry.

Experimental work is complex, and, as a rule, includes the application of a large number of complementary approaches, techniques and methods, and it is conducted in cooperation with laboratories/groups in the country and abroad.

Study program goals

The primary goal of this study program is to enable students to obtain a degree which will be recognized/accepted by all European institutions, and which will enable students to find appropriate employment in academia or in industry, or to continue their post-doctoral studies in biochemistry or related disciplines at Serbian or some other European universities.

Study program outcomes

Students will be able to independently and competently perform complex research work as a part of a team with the aim of solving relevant scientific problems in biochemistry and related disciplines. They will become familiar with working with the latest instruments which are used in biochemical research laboratories and with their application. They will demonstrate their capacity to apply their knowledge in practice, especially in problem-solving and making new discoveries. They will be able to formulate hypotheses and design experiments to test them. They will be able to analyze a material and formulate concepts. They will be able to adapt to new situations and make decisions. They will be able to establish various types of scientific cooperation and communication in their native language and in English.

Admission requirements

Only students who have completed their basic and master academic studies at an appropriate faculty with GPA no less than 8.0 can be enrolled.

Contact

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