



NEUROBIOLOGY

Programme type	Master studies
Field of study	Neurobiology
Study area	Life Sciences
Degree	Master of Life Sciences
Duration	2 years
Workload	120 ECTS credits
Language of instruction	English
Location	Life Sciences Centre
Starting date	September 1st

PROGRAMME DESCRIPTION

- *The objective*
The goal of this programme is to educate specialists for independent work in research and education in areas of neurosciences, electrophysiology, psychopharmacology, etc.
- *Career opportunities*
Master of Sciences in Neurobiology can work at biotechnology industry, research and development, education, medical institutions, private and public agencies where knowledge, technologies and equipment in a field of neurobiology and live sciences are applied, created or traded.
- *Access to further studies*
Analytical knowledge could be improved through the doctoral studies in the fields of life sciences.

KEY LEARNING OUTCOME

A holder of Master's degree in Neurobiology has good knowledge of the general principles of structure, function and pathology of nervous system, is able to study the latest neuroscience related literature, to identify and analyze neuroscience related problems and knows the scope of application, advantages and disadvantages of modern scientific and clinical investigation techniques. A graduate is able to work individually and in team, transfer knowledge to professionals and nonprofessionals, be able to identify own scientific interests in a context of modern life science, to learn continuously, improve and update knowledge and skills.

COURSE INFORMATION

The programme has the following structure:

Course Type	1st Semester (30 ECTS credits)	2nd Semester (30 ECTS credits)	3rd Semester (30 ECTS credits)	4th Semester (30 ECTS credits)
Compulsory Courses	Term research project (5) Neurophysiology (5) Bioelectrical processes (10) Neuroanatomy (5)	Term research project (10) Neurochemistry (5) Biopsychology (5) Psychophysiology (5)	Molecular mechanisms of sensory transduction (5) Neurobiology of sensation and perception (10) Term research project (5)	Master thesis (30)
Elective Courses	Histology (5) Neuroethics (5) Human neuropsychology (5) Adaptive neurotechnologies (5) Laboratory animal science (5) Plant sensory systems (5) Brain imaging methods (5)	Genetics of behavior (5) Biophysics of neuron (5) Biophysics of control systems (5) Biological membranes (5)	Histology (5) Neuroethics (5) Human neuropsychology (5) Adaptive neurotechnologies (5) Laboratory animal science (5) Plant sensory systems (5) Brain imaging methods (5)	

GRADUATION REQUIREMENTS

Studies are finished by defending of Final master degree project.

EXAMINATION AND ASSESSMENT REGULATIONS

The main form of evaluation is an examination. Every course unit is concluded with either a written or written-oral examination. Student's knowledge and general performance during the exam are evaluated using grading scale from 1 (very poor) to 10 (excellent).

ENTRY REQUIREMENTS

- Bachelor's degree or its equivalent in Life and Social Sciences
- English language proficiency – the level required - not lower than B2 (following the Common European Framework of Reference for Languages (CEFR), or TOEFL score 75/IELTS score 6

APPLICATION AND SELECTION REQUIREMENTS

The grade for admission (K) is calculated by the following formula:

$$K = 0,4V + 0,3E + 0,3D$$

V – is the average of all bachelor grades (except for final bachelor thesis and/or final bachelor exam);

E – evaluation of motivation letter;

D – evaluation of final bachelor thesis.

Academic contact

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