



BIOTECHNOLOGY

bachelor's degree programme

Degree

- Bachelor of Engineering

Duration

- 7 semesters

Beginning from

- October

Credits obtained

Degree requires the completion of 210 ECTS

Aim of the programme

Biotechnology is a multidisciplinary field of study, combining knowledge of life sciences and engineering, aiming to use the living organisms in product development, testing and manufacturing. In addition to general topics students can focus on biotechnology of plants, animals and microorganisms gaining practical and theoretical knowledge. Our aim is to provide a solid foundation for future careers in food and pharmaceutical industry, diagnostics, plant breeding companies, research institutions and many others. We put special attention on cutting edge topics including bioinformatics, genomics, nanobiotechnology and genetic engineering.

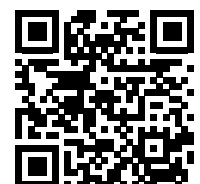
Faculty of Biology and Biotechnology

Biotechnology is taught by highly qualified and experienced staff doing their research in the Institute of Biology and other WULS institutes (Institute of Veterinary Medicine, Institute of Animal Sciences, Institute of Food Sciences, Institute of Human Nutrition Sciences, Institute of Agriculture, Institute of Horticultural Sciences, Institute of Forest Sciences, Institute of Information Technology) using well equipped modern laboratories.

**Faculty of Biology
and Biotechnology**



**Institute
of Biology**



WARSAW
UNIVERSITY
OF LIFE SCIENCES

Faculty of Biology
and Biotechnology

Entry requirements

- The results of the completed secondary education with specified final marks in: (1) biology and (2) chemistry or mathematics or physics;
- Confirmed knowledge of English – at least B2 level (appropriate certificate or document confirming completion of the secondary education taught in English);

Main mandatory subjects:

1 Year

General and physical chemistry, Botany, Animal anatomy, Mathematics, Physics and biophysics, Information technologies, Organic chemistry, Cell Biology, Animal histology, Ecology, Design thinking.

2 Year

General genetics, Biochemistry, General microbiology, Plant physiology, Animal physiology, Physiology of microorganisms, Engineering of biotechnological processes, Molecular biology, Basics of genetics and animal breeding, Enzymology and Biochemical technics, General virology.

3 Year

Genetic engineering, Basics of bioinformatics, Design and development of technological lines, Biotechnological methods in environmental protection, Physiomics, Immunology, Cell and tissue cultures, Industrial biotechnology, Social and legal aspects of biotechnology, Statistics.

4 Year

Chemical safety, Seminar, Graduation workshop, Professional practice.

1-4 Years

Each year there is a variety of facultative subjects covering specific biotechnology related topics. The experimental graduation project can be completed in one of the numerous research groups at WULS or other research institutes in Warsaw.

Internship

Student is obliged to complete practice (160 h/4 weeks) in WULS institutes or other biotechnology-related R&D and business institutions.

Career prospects

The alumni of FSTN can find jobs in:

- Pharmaceutical industry;
- Crop improvement companies;
- Clinical research;
- Food industry;
- Diagnostics laboratories;
- R&D institutions;
- Public administration related to above mentioned.

Fees

5 000,00 PLN / semester,
for Polish nationals: free of charge

Full programme of studies in pdf



Recruitment rules



Registration



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