UNIWERSYTET GDAŃSKI

Course title
Wykład monograficzny - Biotechnologia medyczna/ Monographic lecture - Medical biotechnology

ECTS code
13.4.0108

Name of unit administrating study
Faculty of Chemistry

Studies

Field of study	Type	Form	
Chemistry	Masters	Full-time studies	

Teaching staff
Dr hab. Agnieszka Żylicz-Stachula, prof. nadzw.

Forms of classes, the realization and number of hours

A. Forms of classes, in accordance with the UG Rector's regulations
lecture

B. The realization of activities
in-class learning

C. Number of hours
30 h lecture

ECTS credits 3

classes - 30 h
tutorial classes – 15 h
student's own work – 30 h

Total: 75 h - 3 ECTS

The academic cycle
2020/21 summer semester

Type of course
obligatory

Language of instruction
Polish

Teaching methods

- Lecture with multimedia presentation
- Problem-based Learning
- Individual consultation
- Individual student's work

Form and method of assessment and basic criteria for evaluation or examination requirements

A. Final evaluation, in accordance with the UG study regulations
course completion (with a grade)

B. Assessment methods
presentation, written test

C. The basic criteria for evaluation or exam requirements

Lecture: knowledge of the issues discussed during the lecture

Required courses and introductory requirements
None

Aims of education
Presenting all the issues mentioned in the course contents.

Course contents

applications of stem cells in medical biotechnology; tissue engineering and regenerative medicine; production of bioscaffolds and new biomaterials; proteomics as a tool to identify new therapeutic goals; pharmacogenetics and pharmacogenomics; recombinant vaccines; examples of gene therapy; applications of antibodies in biotechnology and immunotherapy; perspectives of medical biotechnology, ethical controversies.

Bibliography of literature

A. Literature required to pass the course
Monographic works provided by assistants leading classes

B. Extracurricular readings

Knowledge

Student knows and characterizes current possibilities, limitations, perspectives and the anticipated trends in medical biotechnology.
Student gives examples of applications of the recombinant nucleic acids and proteins in medical biotechnology.
Student is familiar with medical biotechnology legislation.

Skills Student discusses issues related to the course content (in a correct and understandable way, in speech and in writing).
Social competence Student recognizes the important role and broad spectrum of issues related to modern medical biotechnology. Student understands the need for further curiosity and education in this area.