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| Course title Wykład monograficzny - Biotechnologia medyczna/ Monographic lecture - Medical biotechnology | | ECTS code 13.4.0135 | |
| Name of unit administrating study Faculty of Chemistry | | | |
| Studies | | | |
| Field of study | Type | Form | |
| Chemical business | Masters | Full-time studies | |
| Teaching staff Dr hab. Agnieszka Żylicz-Stachula, prof. nadzw. | | | |
| Forms of classes, the realization and number of hours | | ECTS credits 3 | |
| A. Forms of classes, in accordance with the UG Rector's regulations lecture | | classes - 30 h tutorial classes – 15 h student's own work – 30 h | |
| B. The realization of activities in-class learning | | Total: 75 h - 3 ECTS | |
| C. Number of hours 30 h lecture | | | |
| The academic cycle Second year, summer semester | | | |
| Type of course obligatory | | Language of instruction Polish | |
| Teaching methods <ul style="list-style-type: none"> 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.