Jan Kochanowski University of Kielce

Academic year: 2023/2024

Faculty of Natural Sciences

Field of study: Biotechnology

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Detailed description of the courses below is available at: <https://ichem.ujk.edu.pl/erasmus.php>

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| BIOTECHNOLOGY |
| Course unit | Przedmiot | Type | ECTS | Completion requirements  | Academic hours per semester |
| WINTER SEMESTER (1) |
|  Environmental Microbiology | Mikrobiologia środowiskowa  | lecture | 3 | examination | 30 |
| Environmental Microbiology | Mikrobiologia środowiskowa  | laboratory | graded credit | 30 |
| Fundamentals of immunology | Podstawy immunologii | lecture | 4 | examination | 30 |
| Fundamentals of immunology | Podstawy immunologiii | laboratory | graded credit | 30 |
| Biophysics | Biofizyka | lecture |  | graded credit | 30 |
| Biophysics | Biofizyka | laboratory | graded credit | 30 |
| General Chemistry | Chemia ogólna  | lecture | 8 | examination | 45 |
| General Chemistry | Chemia ogólna  | laboratory | graded credit | 60 |
| Bacterial genetics | Genetyka bakterii | lecture | 6 | examination | 45 |
| Bacterial genetics | Genetyka bakterii | classes | graded credit | 45 |
| Bioinformatics | Bioinformatyka | lecture | 6 | graded credit | 45 |
| Bioinformatics | Bioinformatyka | laboratory | graded credit | 45 |
| Enzymology | Enzymologia | lecture | 3 | graded credit | 30 |
| Enzymology | Enzymologia  | classes | graded credit | 30 |
| Introduction to spectroscopic techniques | Wprowadzenie do technik spektroskopowych  | lecture | 3 | examination | 15 |
| Introduction to spectroscopic techniques | Wprowadzenie do Technik spektroskopowych | laboratory | graded credit | 30 |
| Bachelor Seminar | Seminarium licnecjackie | laboratory | 3 | graded credit | 45 |
| Medical microbiology | Mikrobiologia medyczna | lecture | 6 | examination | 45 |
| Medical microbiology | Mikrobiologia medyczna | laboratory | graded credit | 45 |
| Methods of separation used in biotechnology | Metody separacji stosowane w biotechnologii | lecture | 5 | examination | 30 |
| Methods of separation used in biotechnology | Metody separacji stosowane w biotechnologii | classes | graded credit | 15 |
| Methods of separation used in biotechnology | Metody separacji stosowane w biotechnologii | laboratory | graded credit | 30 |
| SUMMER SEMESTER (2) |
| Bachelor Seminar | Seminarium licnecjackie | laboratory | 3 | graded credit | 45 |
| Organic Chemistry | Chemia organiczna  | classes | 4 | graded credit | 20 |
| Organic Chemistry | Chemia organiczna  | laboratory | graded credit | 30 |
| Organic Chemistry | Chemia organiczna | lecture | examination | 30 |
| General microbiology | Mikrobiologia ogólna | lecture | 6 | examination | 45 |
| General microbiology | Mikrobiologia ogólna | laboratory | graded credit | 45 |
| General genetics | Genetyka ogólna | lecture | 6 | examination | 45 |
| General genetics | Genetyka ogólna | laboratory | graded credit | 45 |
| Molecular biology | Biologia molekularna | lecture | 4 | examination | 45 |
| Molecular biology | Biologia molekularna | laboratory | graded credit | 30 |
| Bioprocess engineering | Inżynieria bioprocesowa | lecture | 6 | graded credit | 60 |
| Bioprocess engineering | Inżynieria bioprocesowa | laboratory | graded credit | 30 |
| Bioprocess engineering | Inżynieria bioprocesowa | classes | graded credit | 30 |
| Genetically modified organisms-GMO | Organizmy modyfikowane genetycznie -GMO | lecture | 3 | graded credit | 15 |
| Genetically modified organisms-GMO | Organizmy modyfikowane genetycznie -GMO | laboratory | graded credit | 30 |
| Quality control in a biotechnology laboratory | Kontrola jakości w laboratorium biotechnologicznym | lecture | 3 | examination | 30 |
| Quality control in a biotechnology laboratory | Kontrola jakości w laboratorium biotechnologicznym | laboratory | graded credit | 30 |