# **Course Offer 2022 - 2023The Institute of chemistry**

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| **Course Title in Polish** | **Course Title in English** | **Cycle of studies** | **Field of study** | **Lecture hours****Duration** | **Class hours****Duration** | **Lab hours****Duration** | **ECTS credits** | **Lecturer’s name** | **Lecturer’s e-mail address** |
| Podstawy chemii | Fundamentals of chemistry | Studia I stopniaWinter semester | chemistry | 30 | 60 | 60 | 12 |  |  |
| Gospodarka chemikaliami | Chemicals menagement | Studia I stopniaWinter semester | chemistry | 15 |  |  | 2 |  |  |
| Analiza śladowa | Trace analysis | Studia I stopniaWinter semester | chemistry | 30 |  | 30 | 6 |  |  |
| Chemia fizyczna | Physical chemistry | Studia I stopniaWinter semester | chemistry | 30 | 30 | 60 | 8 |  |  |
| Chemia organiczna II | Organic chemistry with material chemistry elements | Studia I stopniaWinter semester | chemistry | 30 | 15 |  | 4 |  |  |
| Metody analityczne związków organicznych | Metods of analysis of organic compounds | Studia I stopniaWinter semester | chemistry |  |  | 60 | 4 |  |  |
| Analiza kryminalistyczna | Forensic analysis | Studia I stopniaWinter semester | chemistry | 30 |  |  | 3 |  |  |
| Krystalografia | Crystallography | Studia I stopniaWinter semester | chemistry | 30 |  | 15 | 4 |  |  |
| Chemia nieorganiczna I | Inorganic Chemistry I | Studia I stopniaSummer semester | chemistry | 30 | 15 |  | 4 |  |  |
| Podstawy chemii analitycznej | Basis of analytical chemistry | Studia I stopnia Summer semester | chemistry | 30 |  | 60 | 7 |  |  |
| Biotechnologia | Biotechnology | Studia I stopniaSummer semester | chemistry | 15 |  |  | 2 |  |  |
| Instrumentalne metody analizy chemicznej | Instrumental methods of chemical analysis | Studia I stopniaSummer semester | chemistry | 15 |  | 45 | 5 |  |  |
| Spektroskopowe metody identyfikacji związków organicznych | Spectroscopic identification of organic compounds | Studia I stopniaSummer semester | chemistry | 15 |  | 30 | 3 |  |  |
| Technologia chemiczna | Chemical technology | Studia I stopniaSummer semester | chemistry | 30 | 15 | 60 | 8 |  |  |
| Analityka środowiskowa | Enviromental analysis | Studia I stopniaSummer semester | chemistry | 30 |  | 30 | 4 |  |  |
| Bioanalityka I chemia medyczna | Bioanalysis and Medical Chemistry | Studia I stopniaSummer semester | chemistry | 30 |  | 30 | 4 |  |  |
| Analiza instrumentalna | Instrumental analysis | Studia II stopniaSummer semester | chemistry | 30 |  | 60 | 8 |  |  |
| Chemia koordynacyjna | Coordination chemistry | Studia II stopniaSummer semester | chemistry | 15 |  | 45 | 6 |  |  |
| Spektroskopia | Spectroscopy | Studia II stopniaSummer semester | chemistry | 30 |  | 30 | 5 |  |  |
| Modelowanie molekularne | Molecular modeling | Studia II stopniaSummer semester | chemistry | 15 | 15 |  | 2 |  |  |