

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| Subject name and code | , PG_00057783 | | | | | | | | |
|--|--|--|--|-------------------------------------|---------|---|-------------------|----------|--|
| Field of study | Green Technologies | | | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | | 2023/2024 | | | |
| Education level | first-cycle studies | | Subject group | | | Obligatory subject group in the field of study Subject group related to scientific research in the field of study | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the | at the university | | |
| Year of study | 2 | | Language of instruction | | | English | | | |
| Semester of study | 4 | | ECTS credits | | | 7.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | exam | | | |
| Conducting unit | Department of Organ | ic Chemistry -> | Faculty of Che | emistry | | | | | |
| Name and surname | Subject supervisor prof. dr hab. inż. Dariusz Witt | | | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Project | | Seminar | SUM | |
| of instruction | Number of study hours | 45.0 | 30.0 | 0.0 | 0.0 | | 0.0 | 75 | |
| | E-learning hours inclu | E-learning hours included: 0.0 | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes includ plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 75 | | 10.0 | | 90.0 | | 175 | |
| | compounds formation and transformation is described by student. The students are able to compare ar predict reactivity of organic compounds. The course of reaction and transformation of organic compounds are elucidated by students. The knowledge of reactions mechanism reflected in optimal transformation is appreciated students. The theory is combined with practical synthesis of organic compounds. | | | | | | | unds are | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U01] is able to obtain information from literature, databases and other sources, is able to integrate the information obtained, to make their interpretation, as well as draw conclusions and formulate and justify opinions, take part in the discussion | | Student is able to gather information from chemical literature. The information is used to explain and understand scientific problems. | | | [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment | | | |
| | [K6_W02] has a basic knowledge of chemistry including general chemistry, inorganic, organic, physical, analytical, including the knowledge necessary to describe and understand the phenomena and chemical processes occurring in the environment; measurement and the determination of the parameters of these processes. | | Student has got a knowledge of chemical transformations and basic methods of purification for organic compounds. | | | [SW1] Assessment of factual knowledge | | | |
| | [K6_U05] can formulate and solve engineering tasks analytical methods, simulation as well as experimental, able to apply knowledge of basic physics and mathematics to analyze the results of experiments, is able to analyze and assess existing technical solutions | | can formulate and solve engineering tasks related to organic chemistry | | | [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject | | | |
| Subject contents | Basic purification techniques for organic compounds. The synthesis of selected solid and liquid compounds. | | | | | | | | |

| Prerequisites and co-requisites | | | | | | |
|--|--|--------------------------------------|-------------------------------|--|--|--|
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| and criteria | The synthesis of 4 compounds | 60.0% | 100.0% | | | |
| Recommended reading | Basic literature R.T. Morrison, R.N. Boyd "Organic Chemistry" Vogel, "Practical Organic Chemistry" | | | | | |
| | Supplementary literature | Chemistry" | | | | |
| | | Vogel, "Practical Organic Chemistry" | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
| Example issues/ example questions/ tasks being completed | Present the basic methods for purification of solid compounds. Present the basic methods for purification of liquid compounds. What is the solid phase extraction? | | | | | |
| Work placement | Not applicable | | | | | |