GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Engineering diploma project II, PG_00060776 | | |
| Field of study | Chemical Technology | | |
| Date of commencement of studies | October 2025 | Academic year of realisation of subject | 2028/2029 |
| Education level | first-cycle studies | Subject group | Optional subject group<br>Subject group related to scientific research in the field of study |
| Mode of study | Full-time studies | Mode of delivery | at the university |
| Year of study | 4 | Language of instruction | Polish |
| Semester of study | 7 | ECTS credits | 4.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department of Polymer Technology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. inż. Justyna Kucińska-Lipka | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 0.0 | 60.0 | 0.0 | 60 |

E-learning hours included: 0.0

**Learning activity and number of study hours**

| Learning activity | Participation in didactic classes included in study plan | Participation in consultation hours | Self-study | SUM |
|---|---|---|---|---|
| Number of study hours | 60 | 5.0 | 35.0 | 100 |

**Subject objectives**

Preparation of an engineering diploma project, including conducting a literature review within the scope of the diploma thesis topic and carrying out planned experimental work, processing the obtained results and their analysis.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_K02] is aware of the responsibility for his/her work and is ready to work in a team and share responsibility for common tasks. | The student is able to apply applicable occupational health and safety regulations when working in a chemical laboratory and on the technological floor. The student conducts himself in a professional and responsible manner when performing tasks related to the engineering diploma project. | [SK3] Assessment of ability to organize work<br>[SK2] Assessment of progress of work |
| [K6_U02] Performs design calculations of technological processes, selects industrial equipment, operates laboratory equipment and conducts material analyses | Students can independently plan and implement their own work related to the topic of their engineering project, including searching for and analyzing literature and analyzing obtained research results. Students can operate scientific equipment, machines, and devices necessary to complete an engineering diploma project in the field of polymer chemistry and technology. | [SU1] Assessment of task fulfilment<br>[SU2] Assessment of ability to analyse information<br>[SU4] Assessment of ability to use methods and tools<br>[SU5] Assessment of ability to present the results of task |

**Subject contents**

Course content – project
- Literature review related to the engineering diploma project
- Selection of research methods and techniques to achieve the objectives of the engineering diploma project
- Occupational health and safety in the chemical laboratory and on the technological hall
- Realization of experimental work (in accordance with the scope of the diploma project)
- Development and analysis of research results
- Preparation of an engineering diploma project

**Prerequisites and co-requisites**

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Engineering diploma project</td><td>100.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>• J.F. Rabek: Współczesna wiedza o polimerach. Tom 1: Budowa strukturalna polimerów i materiały badawcze, PWN, Warszawa 2017<br>• J.F. Rabek: Współczesna wiedza o polimerach. Tom 2: Polimery naturalne i syntetyczne, otrzymywanie i zastosowania, PWN, Warszawa 2017<br>• G.W. Ehrenstein, Ż. Brocka-Krzemińska: Materiały polimerowe: Struktura, właściwości, zastosowanie, PWN, Warszawa 2016<br>• Scientific literature (textbooks and scientific publications) related to the engineering project</td></tr>
<tr><td>Supplementary literature</td><td>Scientific literature, industry standards, procedures and instructions indicated by the engineering project supervisor</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">• Review of scientific publications related to the engineering project, taking into account the identified points.<br>• Preparation of a work schedule for the semester and deadlines for submitting interim reports.<br>• Conducting research work agreed upon with the supervisor<br>• Processing and analyzing the results Preparing the engineering diploma project</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="2">Not applicable</td></tr>
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