GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | Engineering Diploma Project, PG_00055525 | | |
| Field of study | Mechanical Engineering | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | 2026/2027 |
| Education level | first-cycle studies | Subject group | Optional subject group |
| 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 | 16.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Division of Biomaterials Technology -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Beata Majkowska-Marzec | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |

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 | 0 | 25.0 | 375.0 | 400 |

**Subject objectives**

Preparation of an engineering diploma project on a topic and within a scope defined by the supervisor.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools | The student is able to develop and document a solution to a simple design or technological problem in the field of mechanical engineering and present the results using appropriate computer-based tools. | [SU4] Assessment of ability to use methods and tools<br>[SU5] Assessment of ability to present the results of task |
| [K6_U07] is able to design a typical construction of a mechanical device, component or a testing station using appropriate methods and tools, adhering to the set usage criteria | The student performs the necessary calculations, research, analyses, and comparisons using appropriate methods and tools to solve a practical engineering problem. | [SU3] Assessment of ability to use knowledge gained from the subject<br>[SU1] Assessment of task fulfilment |
| [K6_U09] is able to plan the manufacturing, assembly and quality control processes of typical constructions and mechanical devices, estimating their costs | The student is able to plan the manufacturing process of the developed solution and define basic requirements for its quality control and implementation costs. | [SU2] Assessment of ability to analyse information<br>[SU4] Assessment of ability to use methods and tools |
| [K6_U08] is able to design a technological manufacturing process for typical elements of machines or devices, using analytical and numerical calculating tools | The student is preparing a diploma project. They carry out design work related to the technological process, using the available literature and tools. | [SU1] Assessment of task fulfilment<br>[SU4] Assessment of ability to use methods and tools |

**Subject contents**

**Prerequisites and co-requisites**

Registration for the diploma semester.

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Assessment of the Engineering Diploma Project | 56.0% | 100.0% |

**Recommended reading**

| | |
|---|---|
| Basic literature | Literature relevant to the topic of the thesis. |
| Supplementary literature | Literature relevant to the topic of the thesis. |

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|---|---|---|
| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | The current lists of questions for the diploma examination, specific to the given specialization, are available on the Faculty's website. | |
| Practical activites within the subject | Not applicable | |

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