GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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| Subject name and code | Team Project, PG_00057295 | | |
| Field of study | Mechanical and Naval Engineering | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | 2025/2026 |
| Education level | first-cycle studies | Subject group | |
| Mode of study | Part-time studies | Mode of delivery | at the university |
| Year of study | 3 | Language of instruction | Polish |
| Semester of study | 6 | ECTS credits | 4.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Division of Machine Design and Medical Engineering -> Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Rafał Gawarkiewicz | |
| | Teachers | | |

| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|---|
| | Number of study hours | 0.0 | 0.0 | 0.0 | 18.0 | 0.0 | 18 |
| | 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 | 18 | 10.0 | 72.0 | 100 |

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| Subject objectives | Team work on a preliminary design - culminating in a report - of a simple mechanical device. |

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [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 | Obtains necessary information from professional literature, databases, and other resources. Interprets and applies it to solve engineering problems encountered. Draws own conclusions. | [SU2] Assessment of ability to analyse information |
| [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 | Identifies engineering issues related to a simple design task, which is analyzed and solved primarily using computer programs. Also uses computer software to prepare a report in Polish. | [SU1] Assessment of task fulfilment<br>[SU4] Assessment of ability to use methods and tools<br>[SU5] Assessment of ability to present the results of task |
| [K6_U01] is able to acquire information from specialized literary sources, databases and other resources, essential for solving engineering tasks; is able to compile the obtained information pieces and to interpret them, additionally is able to form conclusions and present justified opinion | Is able to design a simple mechanical device using appropriate methods and tools, taking into account established criteria. | [SU1] Assessment of task fulfilment<br>[SU4] Assessment of ability to use methods and tools |
| [K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects | Completes a simple construction project as a team, in accordance with a jointly (team) developed implementation plan. | [SK1] Assessment of group work skills<br>[SK2] Assessment of progress of work |
| [K6_U02] is able to work in a team and individually, also in multi-disciplinary teams, is able to draw a plan of completing a construction or technological design, shows self-learning abilities | Develops a need to expand knowledge and learns appropriate methods for analyzing and solving encountered engineering problems. Understands the need to critically evaluate knowledge and opinions: their own and those of others, particularly regarding (self-)education methodology. Recognizes and realizes how many aspects of work depend on the chosen method of information transfer and how the usefulness of these methods depends on the specific human senses used. Understands the importance of professional conduct and adherence to ethical principles. | [SU2] Assessment of ability to analyse information |

## Subject contents

Course content – project
Treści przedmiotu - projekt (ang.):Design assumptions, ideas and solution concepts for the designed device, criteria analysis, computer calculations and simulations, (preliminary) technical documentation. Creation of a design study (taking into account the guidelines for thesis).

## Prerequisites and co-requisites

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Evaluation of the project work culminating in a printed report. | 50.0% | 100.0% |

## Recommended reading

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| Basic literature | A literature search regarding a specific task is part of the scope of the project study. |
| Supplementary literature | The search for additional literature - if needed at all - is part of the scope of the project study. |
| eResources addresses | |

## Example issues/ example questions/ tasks being completed

## Practical activites within the subject

Not applicable

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