GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Diploma Thesis, PG_00072228		
Field of study	Technical Physics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2029/2030
Education level	first-cycle studies	Subject group	Optional subject group 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	16.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Institute of Physics and Applied Computer Science -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Dampc	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	40.0	0.0	40

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	40	10.0	350.0	400

Subject objectives

Research and scientific works being the basis of engineering diploma. Preparation of an engineering diploma.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U02] is able to analyse and solve complex and non-standard scientific and technical problems using appropriate analytical, computational, numerical, simulation or experimental methods.	Is able to analyze and solve scientific and technical problems related to the subject of engineering work using appropriate methods.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
[K6_U01] demonstrates the ability for lifelong independent learning, including acquiring information from literature, databases and other appropriate sources.	The student can independently manage their learning process and effectively acquire and critically evaluate information from scholarly literature, databases, and other relevant and reliable academic sources.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information
[K6_U06] is able to identify and assess risks, economic efficiency and the applicability of proposed engineering solutions, including critical evaluation taking into account non-technical factors such as ethical aspects.	Is able to conduct an economic analysis of the task being carried out, perform its economic aspects (cost estimate, purchase of components) and assess the validity of the adopted technical solutions.	[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject
[K6_U08] communicates effectively using specialist terminology in physics and related disciplines, enabling the preparation of reports, publications or presentations, as well as participation in discussion and expression of opinions.	Able to communicate progress information with the supervisor. Able to prepare written reports and publications.	[SU5] Assessment of ability to present the results of task

Subject contents

Course content – project
This subject is a graduate work under the supervision of the supervisor on an engineering project.

Prerequisites and co-requisites

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Assessment of the diploma thesis</td><td>65.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Basic literature is provided in the description of the individual proposed topics of engineering works.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">It will be given individually by the thesis supervisor.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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