GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Master's thesis, PG_00064805		
Field of study	Mechatronics		
Date of commencement of studies	February 2027	Academic year of realisation of subject	2027/2028
Education level	second-cycle studies	Subject group	Optional subject group
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	20.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Mechatronics -> 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 hab. inż. Marek Galewski	
	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	30.0	470.0	500

Subject objectives

Preparation, by the student, of the Master thesis on the subject and scope defined by the thesis supervisor.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W01] explains and describes, based on general knowledge in the field of scientific disciplines forming the theoretical foundations of Mechatronics, the construction and principles of operation of mechatronic systems, processes and their components, as well as methods and means of their integration	The student prepares a diploma thesis. Applies appropriate techniques and tools to create necessary models, perform calculations, conduct research, analyses, comparisons, and designs, and describe them in the thesis.	[SW3] Assessment of knowledge contained in written work and projects
[K7_U11] communicates and justifies opinions on specialized topics in a manner understandable to diverse audiences, including the use of modern techniques, including information technology	The student prepares components of the thesis (e.g., calculations, drawings, computer programs), presents and describes them in the text of the thesis, and prepares a multimedia presentation for the diploma exam	[SU5] Assessment of ability to present the results of task
[K7_U13] evaluates the feasibility and potential for utilizing new technical and technological achievements in accomplishing tasks characteristic for the field of study	The student makes critical review of existing solutions, techniques and technologies related to the thesis topic, and uses appropriate techniques and tools to accomplish the task defined for his thesis.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
[K7_W11] interprets social, economic, legal (including industrial and intellectual property laws), and other non-technical aspects of engineering activities, and includes them into engineering practice	During preparing the diploma thesis, the student also considers non-technical aspects of the solved task / created project.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents

Prerequisites and co-requisites

Registration for the diploma semester

<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>Thesis review</td><td>56.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Literature relevant to the thesis topic according to the supervisor's indications and the diplomat's own review of sources.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Literature related to the thesis topic according to the supervisor's indications and the student's own review of sources.</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">Current lists of questions for the diploma exam, specific to the given specialisation, are available on the Faculty's website.</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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