GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Team Project, PG_00055483		
Field of study	Mechatronics		
Date of commencement of studies	October 2024	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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Energy and Industrial Apparatus -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Galewski	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	30.0	0.0	30

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	30	20.0	50.0	100

Subject objectives

Presentation of the design process and solve engineering problems

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U03] has self-learning skills	Student deepens his knowledge in the field corresponding to a given engineering problem	[SU3] Assessment of ability to use knowledge gained from the subject
[K6_U01] is able to acquire information from literature, databases and other, properly chosen sources, integrate these information, interpret them, draw conclusions and formulate opinions	Student selects knowledge sources and synthetises geined information	[SU2] Assessment of ability to analyse information
[K6_U04] is able to utilise known methods and mathematical models as well as analogue and digital measurement methods for analysing and assessment of stationary continuous and discrete mechatronics systems and processes	Student applies methods and techinques to solve engineering probles adequate to a given tasks	[SU4] Assessment of ability to use methods and tools
[K6_U02] is able to elaborate on specific mechatronic topics as well as topics from engineering and technology sciences and disciplines such as Mechanical Engineering, Automation, Electronics, Electrical Engineering and Space Technologies	Student solves practical engineering tasks	[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment

Subject contents

Defining the problem. Solving engineering tasks using current knowledge and expertise. The use of modern tools supporting engineering activities and cooperation

It is planed, to perform projects in cooperation with students from other degree courses, for example Mechanical-Medical Engineering.Students will cooperate in teams to expand existing or develop new solutions (based on a given specifications and constraints) in scope of, for example, mechanical construction, automatic control of device functions, communication, sensors, actuators, safety elements etc.

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>design task</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">No requirements</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Teamwork and Project Management. K. Smith. McGraw-Hill Education 2013</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Design task will be defined by the tutor at the beginning of the semester

For example:
Project of the device for close transport of patients with limited mobility
Project of the device for monitoring selected parameters of the sportsman during performing his exercises</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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