GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Interdisciplinary One Year Project - Part 1, E:41026P0		
Field of study	Space and Satellite Technologies		
Date of commencement of studies	February 2024	Academic year of realisation of subject	2023/2024
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	English
Semester of study	1	ECTS credits	6.0
Learning profile		Assessment form	assessment
Conducting unit	Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Moszyński	
	Teachers	dr hab. inż. Marek Moszyński	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	60.0	0.0	60

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	60	0.0	0.0	60

Subject objectives

To gain by students a practical understanding of the organization and implementation of interdisciplinary space projects as well as of specific space systems engineering methodologies, tools and frameworks.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_W04	Student has knowledge of the organization and methodology with respect to the implementation of a space project and the design of space missions.	[SW1] Assessment of factual knowledge
K7_U02	He has the ability to communicate effectively while implementing an interdisciplinary space project.	[SU5] Assessment of ability to present the results of task
K7_U08	He is able to implement particular taks related to interdisciplinary space project as described in the course contents.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
[K7_K01] is aware of the constant necessity of improving and broadening their knowledge; can inspire and organise the teaching and learning process.	Student is aware of the need to continuously supplement and expand his knowledge related to the implementation of interdisciplinary space projects.	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Students deal with the realistic systems in the space domain in the context of teamwork and customer requirements based on the research activities of the university institutes or business partners.

The contents are e.g.

- Use the methods and principles of Space Systems Engineering
- Work according to Systems Engineering processes
- Define Systems Engineering roles
- Use relevant norms and standards (especially ECSS Space Standards)
- Perform all necessary phases (Requirements Engineering, System Architecture and Component Design, Development, Verification & Validation) using classical and/or agile methods
- Define necessary operational concepts (Operations, Maintenance, Evolution, Quality management, Reuse, Disposal)

Use project management methods and tools (both classical and agile according to the context)

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">-</td></tr>
<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>Project</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Students will receive a reading list at the beginning of the semester.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">-</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">-</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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