

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00050046							
Field of study	Space and Satellite T	echnologies, S	pace and Sate	llite Technolog	ies			
Date of commencement of studies			Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Mecha	hatronics -> Faculty of Mechanical Eng				gineering and Ship Technology		
Name and surname	Subject supervisor	dr hab. inż. Krzysztof Lipiński						
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project Semin		Seminar	SUM	
of instruction	Number of study hours	15.0	30.0	0.0	0.0		0.0	45
	E-learning hours inclu	uded: 0.0		·				
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		15.0	5.0			100
Subject objectives	Extension of the know Familiarization with th the point of moving co analytical mechanics type II.).	ne description of complex issues	of the kinematic collisions, dyna	s and dynamic mic systems w	s of mov vith varia	vement able ma	and any sphe	rical body, sics of
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K7_U05		The student is able to work in a team			[SU5] Assessment of ability to present the results of task		
	K7_U08		The student applies the principles of analytical mechanics in solving		[SU1] Assessment of task fulfilment			
	[K7_W01] has extended knowledge of selected areas of mathematics making it possible to solve computational problems and develop research results of technical tasks.		The student has the knowledge to solve computational problems in the field of analytical mechanics		[SW1] Assessment of factual knowledge			
	[K7_K01] is aware of the constant necessity of improving and broadening their knowledge; can inspire and organise the teaching and learning process.		The student broadens his knowledge		[SK2] Assessment of progress of work			
	K7_U13		Student describes the kinematics and dynamics of mechanical structures			[SU1] Assessment of task fulfilment		
Subject contents	-							
Prerequisites and co-requisites	nowledge of physics and mathematics at the secondary level, including in particular: geometry and trigonometry, calculus, vector calculus and matrix, as well as knowledge of general knowledge in the field of statics, kinematics and dynamics.							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Exam					50.0%		
	Exercices pass					50.0%		
Recommended reading	Basic literature1. Sawiak S., Wittbrodt E.: Mechanika. Wybrane zagadnienia. Teoria i zadania. Wyd. PG, Gdańsk 2014					nia. Teoria i		

		 Osiński Z.: Mechanika ogólna. T. I i 2, PWN, Warszawa 1987 Nizioł J.: Metodyka rozwiązywania zadań z mechaniki. WNT, Warszawa 2002 Sawiak S., Wittbrodt E.: Mechanika ogólna. Teoria i zadania. Wyd. PG, Gdańsk 2012
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	