

Subject card

	DO 00050040								
Subject name and code	, PG_00050046								
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			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			
				nical En					
Conducting unit	·	hatronics -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr hab. inż. Krzysztof Lipiński						
of lecturer (lecturers)	Teachers				. In . Invest				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45	15.0			40.0		100	
Subject objectives	Extension of the knowledge gained in the framework of general mechanics (statics, kinematics, dynamics). Familiarization with the description of the kinematics and dynamics of movement and any spherical body, the point of moving complex issues collisions, dynamic systems with variable mass and the basics of analytical mechanics (general equation of dynamics, the principle of virtual work, Lagrange equations I and type II.).								
Learning outcomes	Course outcome			Subject outcome			Method of verification		
	K7_U13		Student describes the kinematics and dynamics of mechanical structures			[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.		The student broadens his knowledge			[SK2] Assessment of progress of work			
	[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_U08		The student applies the principles of analytical mechanics in solving			[SU1] Assessment of task fulfilment			
	K7_U05		The student is able to work in a team			[SU5] Assessment of ability to present the results of task			
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			
	Exercices pass		56.0%			50.0%			
	Exam		56.0%			50.0%			
Recommended reading	Basic literature	1. Sawiak S., Wittbrodt E.: Mechanika. Wybrane zagadnienia. Teoria i zadania. Wyd. PG, Gdańsk 2014							

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	Supplementary literature	1. Osiński Z.: Mechanika ogólna. T. I i 2, PWN, Warszawa 1987
		2. Nizioł J.: Metodyka rozwiązywania zadań z mechaniki. WNT, Warszawa 2002
		3. 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	

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