



## Subject card

Subject name and code	Systems Modeling and Simulation, E:41054W0						
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		3.0		
Learning profile			Assessment form		assessment		
Conducting unit	Department of Intelligent and Decision Support Systems -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tomasz Zubowicz				
	Teachers		dr inż. Tomasz Zubowicz  dr inż. Bartosz Puchalski  dr inż. Krzysztof Armiński				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	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 familiarise students theoretically and practically with modelling and identification of space systems and components.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_U08		Student is able to implement tasks in the field of system modeling and simulation.		[SU1] Assessment of task fulfilment		
	[K7_K03] Can analyse and implement assigned tasks while maintaining high technical standards. Is able to work and interact in a group, taking on different roles. Adheres to the principles of professional ethics and respects the diversity of views and cultures.		He implements tasks related to system modeling and simulation with maintaining high technical standards.		[SK2] Assessment of progress of work		
	K7_W06		Student has knowledge of the typical steps and milestones in system modelling and simulation.		[SW1] Assessment of factual knowledge		
Subject contents	<ul style="list-style-type: none"><li>• Modelling and identification of space systems and components</li><li>• System structural identification techniques</li><li>• System parameter identification</li><li>• Neural and fuzzy modelling</li></ul>						
Prerequisites and co-requisites	-						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	project		50.0%		50.0%		
	exam		50.0%		50.0%		
Recommended reading	Basic literature		Students will receive a reading list at the beginning of the semester.				
	Supplementary literature		-				

	eResources addresses	Adresy na platformie eNauczenie: Systems Modeling and Simulation [WIMiO][2023/24] - Moodle ID: 38813 <a href="https://enauczenie.pg.edu.pl/moodle/course/view.php?id=38813">https://enauczenie.pg.edu.pl/moodle/course/view.php?id=38813</a>
Example issues/ example questions/ tasks being completed	-	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.