



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	Katedra Inteligentnych Systemów Sterowania i Wspomagania Decyzji -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tomasz Zubowicz				
	Teachers		dr inż. Tomasz Zubowicz				
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">Modelling and identification of space systems and componentsSystem structural identification techniquesSystem parameter identificationNeural and fuzzy modelling						
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 eNauczanie:				

Example issues/ example questions/ tasks being completed	-
Work placement	Not applicable