

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00065234								
Field of study	Transport								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025			
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			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor	dr hab. Daniel Kaszubowski							
of lecturer (lecturers)	Teachers		dr hab. Daniel Kaszubowski						
	mgr inż. Konrad Biszko								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	15.0		0.0	45	
	E-learning hours included: 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		0.0	0.0			45	
Subject objectives	Providing knowledge about techniques and applications of modeling and simulation of logistics processes and using the acquired knowledge in practice using a dedicated simulation application.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems		Ability to independently formulate research problems			[SK5] Assessment of ability to solve problems that arise in practice			
	[K7_U06] develops their potential using their own initiative and experience, taking personal responsibility for striving to achieve their goals and increasing opportunities for personal development as well as those of their colleagues		Ability to independently acquire practical skills using available data sources			[SU4] Assessment of ability to use methods and tools			
	[K7_U05] cooperates with other people in the implementation of team work, both as a leader and a team member, effectively achieving set goals					[SU1] Assessment of task fulfilment			
	[K7_W01] identifies in an in-depth way phenomena related to the field of study as well as theories describing them and possible methods of analyzing processes occurring in the life cycle of technical systems		Ability to identify problematic issues in the project task being carried out			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	 Definition of simulation and modeling Characteristics of operating systems Principles of execution, examples and advantages of simulation Simulation users Simulation procedure Simulation of queuing systems Discrete event simulation 								
Prerequisites and co-requisites	Basic knowledge of th	ne functioning o	of logistics syst	ems					

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Practical work	60.0%	50.0%		
	Lecture - test	60.0%	50.0%		
Recommended reading	Basic literature Supplementary literature eResources addresses	 A. M. Law, Simulation Modeling and Analysis. McGrawHill Education, 2015 K. A. Jurczyk, Flexsim. Podrećznik użytkownika. Intermarium, 2024 A. G. GreenWood, Simulation Primer, FlexSim, 2019 A. G. GreenWood, Simulation Software Primer, FlexSim, 2020 Actual industry-related literature 			
Example issues/ example questions/ tasks being completed	eResources addresses Adresy na platformie eNauczanie: 1. Basics of 3D mode . 2. Creating element flow lo . 3. gic Defining parameters of objects in the model . 4. Model of a quality control station . 5. Model of the conveyor system .				
Work placement	Not applicable				

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