

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Information Technology, PG_00044509								
Field of study	Transport								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific			
						research 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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marek Jasina							
	Teachers		dr inż. Marek Jasina						
			dr inż. Roksa						
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	0.0		0.0	30	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7295 Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	activity Participation ir classes includ plan				Self-study		SUM	
	Number of study hours	30		5.0		15.0		50	
Subject objectives	Practical aspects bases of information technology. Word processing. Calculation sheets, Data bases. Managing and presentation graphics. Information network services. Obtaining and processing of information. Information society. Technologies of access to information. Development of infrastructure of information society. Safety in the net. Bases of computers. Representation of data. Precision of calculations. Operating systems. Algorithms and nets of operations. Translators and compilers. Programming languages.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W04] has basic knowledge of informatics, electronics, telecommunications, automation and control, information technologies, computer graphics, geodesy and satellite navigation which is useful for understanding how it can be applied in transport		Coming to know concepts of information technology: • social transformations caused by technological progress; • technologies of access to information.			[SW1] Assessment of factual knowledge			
	[K6_U01] able to use technical documentation and literature, databases and other sources of transport related information; able to interpret information, make logical links and formulate opinions and conclusions based on the above		Coming to know concepts of information technology: • development of infrastructure; • safety in the net; • programming.			[SU1] Assessment of task fulfilment			

Subject contents	Practical Aspects bases of information technology. Word processing. Calculation sheets, Data bases. Managing and presentation graphics. Information network services. Obtaining and processing of information. Information society. Technologies of access to information. Development of infrastructure of information society. Safety in the net. Bases of computers. Representation of data. Precision of calculations. Operating systems. Algorithms and nets of operations. Translators and compilers. Programming languages. Bases of programming using MATLAB (environment and toolboxes, basic and control instructions, 2D and 3D graphics, task interpretation, programming, evaluation of results).					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	lab. 1 - database	0.0%	20.0%			
	lab. 3 – Internet note – work in team	0.0%	20.0%			
	lab. 2 – paper – work in team	0.0%	20.0%			
	lecture test	0.0%	20.0%			
	lab. 4 – individual presentation	0.0%	20.0%			
Recommended reading	Basic literature	<ol> <li>Papińska-Kacperek J. (red): Społeczeństwo informacyj Warszawa 2008.</li> <li>Jankowski R., Lubowiecka I., Witkowski W.: Podstawy programowania w języku MATLAB. CURE, Gdańsk 200 3. MATLAB-The Language of Technical Computing. User</li> </ol>				
	Supplementary literature		ki A., Cegiełka R.: Matlab - obliczenia numeryczne i ich wania. Wydawnictwo Nakom, Poznań 1997.			
	eResources addresses					
Example issues/ example questions/ tasks being completed	Create a database - Access. Preparation of a presentation on a given topic.					
Work placement	Not applicable					