



Subject card

Subject name and code	Information Technology, PG_00044509						
Field of study	Transport						
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023	
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						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	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	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.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lab. 4 – individual presentation	0.0%	20.0%
	lecture test	0.0%	20.0%
	lab. 2 – paper – work in team	0.0%	20.0%
	lab. 3 – Internet note – work in team	0.0%	20.0%
	lab. 1 - database	0.0%	20.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Papińska-Kacperek J. (red): Społeczeństwo informacyjne. PWN, Warszawa 2008. 2. Jankowski R., Lubowiecka I., Witkowski W.: Podstawy programowania w języku MATLAB. CURE, Gdańsk 2003. 3. MATLAB-The Language of Technical Computing. Users manual. 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Zalewski A., Cegiłka R.: Matlab - obliczenia numeryczne i ich zastosowania. Wydawnictwo Nakom, Poznań 1997. 	
	eResources addresses	Adresy na platformie eNauczenie: Technologia informacyjna 2022/2023 (zima) - Moodle ID: 25677 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25677	
Example issues/ example questions/ tasks being completed	Create a database - Access. Preparation of a presentation on a given topic.		
Work placement	Not applicable		