GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Information Technology, PG_00044509
Field of study	Transport

Date of commencement of studies	October 2023	Academic year of realisation of subject	2023/2024
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. Roksana Licow
		mgr inż. Natalia Karkosińska-Brzozowska

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_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
	[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

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. 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	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	1. Zalewski A., Cegiełka R.: Matlab - obliczenia numeryczne i ich zastosowania. Wydawnictwo Nakom, Poznań 1997.
	eResources addresses	Adresy na platformie eNauczanie: Technologia informacyjna 2023/2024 (sem. zimowy) - Moodle ID: 33374 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33374

Example issues/ example questions/ tasks being completed	Create a database - Access.
	Preparation of a presentation on a given topic.

Work placement	Not applicable