

Subject card

Subject name and code	Essentials of Computer Science, PG_00044386										
Field of study	Civil Engineering										
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022					
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study					
Mode of study	Part-time studies		Mode of delivery			at the university					
Year of study	1		Language of instruction			Polish					
Semester of study	2		ECTS credits			4.0					
Learning profile	general academic profile		Assessment form			assessment					
Conducting unit	Structural Mechanics Department -> Faculty of Civil and Environmental Engineering										
Name and surname	Subject supervisor		dr inż. Krzysztof Żerdzicki								
of lecturer (lecturers)	Teachers	dr inż. Krzysztof Żerdzicki									
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM			
of instruction	Number of study hours	15.0	0.0	10.0	0.0		0.0	25			
	E-learning hours included: 0.0										
	Adresy na platformie eNauczanie:										
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h			udy	SUM			
	Number of study hours	25		5.0		70.0		100			
Subject objectives	Aim of the subject is to learn the students how to use computer aided engineering softwares on the basis of AutoCAD and MAtlab commercial programs.										
Learning outcomes	Course outcome		Subject outcome			Method of verification					
	[K6_W11] Knows selected software supporting the calculation and design of construction as well as construction management		and AutoCAD softwares for engineering calculation and			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation					
	[K6_U02] is able to define basic calculation models used in computer calculations		Student knows how to solve simple engineering problems using MAtlab software.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools					
Subject contents	Basis of programming - Matlab software. Basis of engineering computer aided design - AutoCAD software.										
	Engineering software - CAD / CAM/ CAE - examples.										
Prerequisites and co-requisites											
Assessment methods and criteria	Subject passin	g criteria	Pass	ing threshold		Percentage of the		final grade			
	Project		60.0%		100.0%						
Recommended reading	Basic literature		Programo 2. A. Pikoń: 3. P. Kłosov	<i>"</i>			yd. PG Gdańs lion Warszawa sunków w sys	k 2003. a 2008.			

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	Supplementary literature	1. 2.	B. Mrozek, Z. Mrozek: "MATLAB i Simulink. Poradnik użytkownika", Wyd. III, Helion 12/2010. I. Lubowiecka, A. Ambroziak: 'MATLAB i jego środowisko", Wyd. PG Gdańsk 2016.
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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