

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Essentials of Computer Science, PG_00044386								
Field of study	Civil Engineering								
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			
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	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 of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
	Number of study hours	15.0	0.0	10.0	0.0		0.0	25	
	E-learning hours inclu	ided: 0.0							
	Adresy na platformie eNauczanie: Podstawy Informatyki - 2021 - Moodle ID: 13544 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13544								
Learning activity and number of study hours	ity Learning activity Participation classes inclu- f study hours		n didactic Participation in ed in study consultation hours		Self-study		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_U02] is able to define basic calculation models used in computer calculations		Student knows how to solve simple engineering problems using MAtlab software.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K6_W11] Knows selected software supporting the calculation and design of construction as well as construction management		Student knows how to use Matlab and AutoCAD softwares for engineering calculation and preparation of technical drawings and projects.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
Subject contents	Basis of programming Basis of engineering	g - Matlab softw computer aide	vare. d design - Auto	oCAD software					
	Engineering software - CAD / CAM/ CAE - examples.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passin	g criteria	Pass 60.0%	ing threshold		Per 100.0%	centage of the	e final grade	
							-		

Recommended reading	Basic literature	 R. Jankowski, I. Lubowiecka, W. Witkowski: "Podstawy Programowania w języku MATLAB". Wyd. PG Gdańsk 2003. A. Pikoń: "AutoCAD 2008 i 2008PL" Helion Warszawa 2008. P. Kłosowski: "Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010PL 2011PL". Wyd. PG Gdańsk 2010 				
	Supplementary literature	 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		Podstawy Informatyki - 2021 - Moodle ID: 13544 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13544				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					