



Subject card

Subject name and code	Informatic technologies, PG_00038380						
Field of study	Electrical 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	1	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Power Electronics and Electrical Machines -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Łukasz Sienkiewicz				
	Teachers		dr inż. Łukasz Sienkiewicz				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	0.0	0.0	0.0	20
	E-learning hours included: 0.0						
	Adresy na platformie eNauzanie: TECHNOLOGIE INFORMACYJNE [Niestacjonarne][2021/22] - Moodle ID: 16807 https://enauzanie.pg.edu.pl/moodle/course/view.php?id=16807						
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	20		2.0		28.0	50
Subject objectives	The aim of the course is to present the basic information and definitions in the field of information technology, computer system, utility software, computer networks, databases, programming.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W07		Student knows the basics of structural and object-oriented programming languages. He understands the basic stages of the programming process and is able to use development tools.		[SW3] Assessment of knowledge contained in written work and projects		
	K6_U03		The student knows the rules for preparing technical presentations. He can use MS Powerpoint software and open source equivalents(.odp). Student know how to use graphic techniques for visualizing engineering data.		[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task		
	K6_K01		The student is open to learning about new information technologies and uses software supporting the work of an engineer, moreover he can critically evaluate his skill level.		[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work		
Subject contents	Lecture Basic definition of Information Technology. Main components of PC and accessories. Example of computer applications: operating systems, CAD software etc. Digital processing of information (text, video, photo). Technical aspects and protocols of computer network (local area network). Data base, DataBase Management System						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Midterm colloquium		60.0%		100.0%		

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Marek Cieciora, „Podstawy Technologii Informacyjnych z przykładami zastosowań”, Wydaw. VIZJA PRESS&IT SP.z o.o., Warszawa 2006 2. Włodzimierz Gogolek, „Technologie informacyjne mediów”, Oficyna Wydawnicza ASPRA-JR, Warszawa 2005 3. Włodzimierz Gogolek, „Wprowadzenie do informatyki dla humanistów”, Centrum Doradztwa i Informatyzacji Difin sp. z o. o., Warszawa 2007 4. Marian Golka „Bariery w komunikowaniu i społeczeństwo (dez)informacyjne”, Wydawnictwo Naukowe PWN, 2008 5. Piotr Gawrysiak „Cyfrowa rewolucja. Rozwój cywilizacji informacyjnej”, Wydawnictwo Naukowe PWN/MIKOM 2008 6. Teaching materials published on the website www.ely.pg.gda.pl/e-mechatronika
	Supplementary literature	<ol style="list-style-type: none"> 1. Wróblewski P.: Algorytmy, struktury danych i techniki programowania. Wyd. Helion, 2003. 2. Shalloway A., Trott J.: Projektowanie zorientowane obiektowo. Wzorce projektowe. Wyd. Helion, 2002. 3. Coburn R.: SQL dla każdego. Wyd. Helion, 2001.
	eResources addresses	TECHNOLOGIE INFORMACYJNE [Niestacjonarne][2021/22] - Moodle ID: 16807 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16807
Example issues/ example questions/ tasks being completed	Specify disadvantages and advantages of the use of vector graphics Specify at least four rules for making nad and conduct good presentation Suggest a method for modeling of example 3D object Create a virtual database tables containing information about students, subjects, student evaluations	
Work placement	Not applicable	