



Subject card

Subject name and code	Information Technology, PG_00039294													
Field of study	Medical and Mechanical Engineering, Mechanical and Medical 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	Full-time studies		Mode of delivery		e-learning									
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 Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology													
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tadeusz Bocheński											
	Teachers		dr inż. Tadeusz Bocheński  dr inż. Dawid Zieliński  dr inż. Norbert Piotrowski											
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM							
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15							
	E-learning hours included: 15.0													
	Adresy na platformie eNauczanie:													
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	15		5.0		30.0	50							
Subject objectives	The basic knowledge in the area of information technology - IT.													
Learning outcomes	Course outcome		Subject outcome			Method of verification								
	K6_K01		The ability to use IT techniques.			[SK2] Assessment of progress of work								
	K6_U03		Getting to know the basic IT techniques used in industry,			[SU1] Assessment of task fulfilment								
Subject contents	Formal methods of information engineering, electronic documents and digital libraries (1). Networks (1). The use of robots in industry and medicine (1). Telemedicine and e-health (2), e-business, e-manufacturing (2). Engineering and knowledge management, intelligent information services (2). The reliability and security, development of information society, electronic Infosystem (1). Reporting and Data Analysis (1). Manage relationships with internal and external customers (1). Information systems used to manage the processes of production and engineering support (2). Polish IT market, global trends in the development of information technology (1).													
Prerequisites and co-requisites	Basics of informatics, Internet, ability to use MS Office													
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade								
	Midterm colloquium		50.0%			50.0%								
	Practical exercise		50.0%			50.0%								

Recommended reading	Basic literature	<p>1. Zarządzanie i technologie informacyjne. t. 1: komunikacja w dobie Internetu, red. Barbara Kożusznik, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2004.</p> <p>2. Zarządzanie i technologie informacyjne. t. 2: metody sztucznej inteligencji w zarządzaniu i sterowaniu, red. Joanna Józefowska, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2005.</p> <p>3. Podstawy Robotyki. Wprowadzenie do Teorii i Elementów Manipulatorów i Robotów, red. naukowy -- Morecki A., WNT, Warszawa 1998.</p> <p>4. Technologie informacyjne. Zeszyty Naukowe Wydziału ETI Politechniki Gdańskiej. Od roku 2005.</p>
	Supplementary literature	<p>1. MSI – Manufacturing Systems Information POLSKA, miesięcznik wydawany na licencji Manufacturing Business Technology (prenumerowany na bieżąco od 2005 roku przez prowadzących zajęcia).</p>
	eResources addresses	
	Example issues/ example questions/ tasks being completed	Types of databases. Examples of relational databases. Types of CAx systems. ERP / MRP. Digital workflow documentation. Cloud computing.
Work placement	Not applicable	