

Subject card

Subject name and code	Information Technology, PG_00055182							
Field of study	Mechanical 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			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	Subject supervisor	dr inż. Tadeusz Bocheński						
of lecturer (lecturers)	Teachers		dr hab. inż. Stefan Dzionk dr inż. Dawid Zieliński dr inż. Tadeusz Bocheński					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0		0.0	15
	E-learning hours inclu	uded: 15.0				1		
	Adresy na platformie eNauczanie:							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		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_U01] is able to acquire information from specialized literary sources, databases and other resources, essential for solving engineering tasks; is able to compile the obtained information pieces and to interpret them, additionally is able to form conclusions and present justified opinion [K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and		Skills in the use of IT techniques in the field of systems and equipment. Ability to work independently			[SK2] Assessment of progress of work		
Subject contents	innovation in the realisation of professional projects 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).							

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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				
	Practical exercise	50.0%	50.0%				
	Midterm colloquium	50.0%	50.0%				
Recommended reading	Basic literature	Zarządzanie i technologie informacyjne. t. 1: komunikacja w dobie Internetu, red. Barbara Kożusznik, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2004. Zarządzanie i technologie informacyjne. t. 2: metody sztucznej inteligencji w zarządzaniu i sterowaniu, red. Joanna Józefowska, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2005. Podstawy Robotyki. Wprowadzenie do Teorii i Elementów Manipulatorów i Robotów, red. naukowy Morecki A., WNT, Warszawa 1998.					
		4. Technologie informacyjne. Zeszyty Naukowe Wydziału ETI Politechniki Gdańskiej. Od roku 2005.					
	Supplementary literature	wydawany na licencji Manufacturin	ng Systems Information POLSKA, miesięcznik Manufacturing Business Technology nieżąco od 2005 roku przez prowadzących				
	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						

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