



Subject card

Subject name and code	, PG_00056592						
Field of study	Engineering Management						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies	Mode of delivery			e-learning		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Zielińska					
	Teachers	dr Anna Zielińska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 15.0						
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	0.0		0.0	15	
Subject objectives	The aim of the course is to present the stages of commercialization and technology transfer of products and services						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems	Has basic knowledge of designing processes aimed at commercialization of research results			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes	analyzes engineering and managerial solutions in decision-making processes in the field of commercialization of research results			[SU4] Assessment of ability to use methods and tools		
Subject contents	Sources of the R&D conceptTypes of entities implementing the area of research and developmentBarriers to cooperation between the university and businessRealizing the need, idea and idealIncubation of ideasPrototyping and visualization of the conceptIntroduction to the market, promotion and maintenance on the marketTechnology transfer platforms						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Project	60.0%			100.0%		

Recommended reading	Basic literature	Gierulski W., Santarek K., Wiśniewska J., Komercjalizacja i Transfer Technologii, Wyd. PWE 2020 Głodek P., Gołębiowski M., Transfer technologii w małych i średnich przedsiębiorstwach, t. 1, STI M, Warszawa 2006.
	Supplementary literature	Różański J., Transfer technologii w procesach innowacyjnych przedsiębiorstwa, Wyd., Uniwersytetu Łódzkiego 2019
	eResources addresses	Adresy na platformie eNauczenie: Transfer technologii ZI 2024/2025 - Moodle ID: 39702 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=39702
Example issues/ example questions/ tasks being completed	<p>Overview of the commercialization process on a selected example Identification of barriers to cooperation between individuals for a selected industry Idealization of the concept Identification of resources in the technology transfer process</p>	
Work placement	Not applicable	

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