



Subject card

Subject name and code	Innovation management, PG_00062147						
Field of study	Technical Physics						
Date of commencement of studies	February 2023		Academic year of realisation of subject		2023/2024		
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Instytut Matematyki Stosowanej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Świetlik				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
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	30		2.0		18.0	50
Subject objectives	Presenting the path of managing innovation processes in the company and familiarizing students with the methods and criteria for obtaining support for financing innovative projects.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications		the student is able to apply knowledge from the humanities, social sciences, economics or law to solve problems		[SW3] Assessment of knowledge contained in written work and projects		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		the student has general knowledge in the field of humanities, social sciences, economics or law, including their foundations and applications		[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		the student is able to explain the need to use knowledge from the field of humanities, social sciences, economics or law in functioning in a social environment		[SU2] Assessment of ability to analyse information		

Subject contents	1. Management functions: planning, organizing, motivating, controlling.		
	2. Basic issues in innovation management		
	3. Assessment of the company's effectiveness in creating product innovations		
	4. Your own company as a place for creating, financing and developing innovations		
	5. Innovations in the enterprise - cost and revenue analysis		
	6. Methods of financing innovative projects in Polish conditions		
	7. Organizational structures in innovative enterprises8. Modern project management systems		
	Prerequisites and co-requisites	none	
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	60.0%	100.0%
Recommended reading	Basic literature	1. Knosala R., Zarządzanie projektami innowacyjnymi, PWE, Warszawa 2021 2. Cieślík J.: Przedsiębiorczość dla ambitnych. Jak uruchomić własny biznes. Wydawnictwa Akademickie i Profesjonalne. Warszawa 2020 3. Waters D.: Zarządzanie operacyjne. Towary usługi. PWN, Warszawa 2019	
	Supplementary literature	none	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed	Defining business assumptions, determining market opportunities for the proposed action, performing financial analyzes and assessing financing possibilities	
Work placement	Not applicable		