



Subject card

Subject name and code	Management of projects and implications, PG_00056140						
Field of study	Management and Production Engineering						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			5.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Zakład Technologii Maszyn i Automatykacji Produkcji -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Aleksandra Wiśniewska					
	Teachers	dr inż. Krzysztof Krzysztofowicz dr inż. Dominika Zakrzewska dr inż. Aleksandra Wiśniewska dr inż. Bogdan Ścibiorski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	15.0	0.0	0.0	60
	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	60	0.0		0.0	60	
Subject objectives	The course is intended to: <ul style="list-style-type: none">• Understanding the nature and types of projects and implementations• Understanding the methods of planning projects and implementations• Understanding the methods of project management and implementation• Acquiring the ability to design and use methods in project management and implementation						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U04] is able to develop documentation in the area of preparation, implementation and control of production processes in Polish and in a foreign language considered basic for scientific fields, is able to identify and formulate the basic objectives of quality management in the product life cycle, is able to use information and communication techniques appropriate to the implementation of tasks typical in engineering activities including preparation, production and supervision of the manufacturing process	The student is able to develop reports, procedures and instructions using the principles of standardization and visualization and in compliance with the principles, methods and tools of information and communication techniques. At the same time, the student freely uses technical and industry vocabulary in the areas of the analyzed problems, expressing himself freely in Polish and English.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
	[K6_W06] has knowledge of the life cycle of products and mechanical devices and systems, in the field of machine parts manufacturing techniques, as well as the possibilities and trends in the development of machines and production devices and process control	The student knows the types of products and the differences between managing a production company and managing a service company. Based on the acquired knowledge of production systems, the student knows the specificity of production processes as well as the principles, methods and tools of production control. Based on the acquired knowledge of production and service processes as well as technical and information resources, the student is able to determine the pace and specificity of the development of machines and devices as well as production control processes.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects
	[K6_K02] is able to interact and work in a group, assuming different roles, can inspire and organize the learning process of others, properly identifies priorities for realization of a task specified by themselves or others	The student is able to use the acquired knowledge in the field of team building to create an effective team of employees. The student uses dedicated methods of motivating to manage the work of the team, motivating employees and resolving conflicts. The student assumes the role of a leader and uses appropriate tools to improve communication in the team and build the team image within the organization and environment.	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills
	[K6_W08] has basic management knowledge, including process and product quality management, and detailed knowledge of integrated and standardized quality, environmental, health and safety management systems	The student uses the knowledge of system management to identify opportunities and threats, identify the level of risk and build risk management systems in the area of quality and safety.	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects
	[K6_U03] is able to communicate using various techniques in the professional environment and other environments, has language skills enabling free communication in the field of technical sciences related thematically to management and production engineering	The student is able to formulate statements and messages in a manner adapted to the level of thematic apperception of the recipient. The student uses the trade vocabulary freely in the language Polish and English.	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
Subject contents	Basic issues related to project management. Project management methodologies. Project planning rules, incl. QFD analysis and SWOT-TOWS analysis. Project management areas and processes. Project integration management. Scope management in the project. Designing a network of activities in the form of a network diagram (CPM). Designing a network of activities from the task list, parent and child tasks (WBS). Resource management in the project (including financial analysis, commercialization). Time management in the project (Scheduling, Gantt chart). Project cost management (Earned Value Method). Quality management in the project. Project communication management. Risk management in the project (risk analysis).		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exercises	60.0%	30.0%
	Laboratory	60.0%	30.0%
	Lectures	60.0%	40.0%

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Efektywne zarządzanie projektami, Wysocki Robert, McGary Rudd, 2017 2. Grucza Bartosz, Zarządzanie inteesariuszami projektu., PWE 2019 3. Project Management Institute, Inc.: A Guide to the Project Management Body of Knowledge, (PMBOK® Guide) 4. Redlarski, Krzysztof. <i>Podstawy metodyki zarządzania projektami w ujęciu klasycznym</i>. Wydawnictwo Politechniki Gdańskiej, 2016. 5. Trocki M.: Zarządzanie projektami, PWN Warszawa 2003r; 6. Wilczewski S.: MS Project 2010 i MS Project Server 2010. Helion 2011 7. Sońta-Drażczkowska Ewa, Zarządzanie projektami we wdrażaniu innowacji., PWE 2018 8. Sońta-Drażczkowska Ewa, Zarządzanie wieloma projektami, PWE 2012 9. Spalek Seweryn, Zarządzanie projektami w przedsiębiorstwie. Perspektywa czwartej rewolucji przemysłowej., PWE 2020 10. Metodyki i standardy zarządzania projektami, pod redakcją Michała Trockiego., PWE 2019
	Supplementary literature	<ol style="list-style-type: none"> 1. Pritchard Carl L., Zarządzanie ryzykiem w projektach, WIG - PRESS Warszawa 2002; 2. Kerzner H.: Project Management a Systems Approach, To Pleanning, Scheduling and Controlling; 3. Chatfield C., Johnson T., MicrosoftOffice Project 2010 krok po kroku, RM Warszawa 2011
	eResources addresses	<p>Adresy na platformie eNauczanie:</p> <p>Zarządzanie Projektami i Wdrożeniami, ZiIP, sem03, zima 24/25 (PG_00056140) - Moodle ID: 40684 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40684</p>
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. QFD analysis; 2. SWOT-TOWS analysis; 3. WBS model; 4. Critical path method - CPM; 5. Earned Value method; 6. Risk analysis; 7. Commercialization. 	
Work placement	Not applicable	

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