



## Subject card

Subject name and code	, PG_00061758						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Optional subject group Humanistic-social 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	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. Aleksandra Wiśniewska dr inż. Bogdan Ścibiorski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	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		0.0		0.0	30
Subject objectives	The course is intended to: <ul style="list-style-type: none"><li>• Understanding the nature and types of projects and implementations</li><li>• Understanding the methods of planning projects and implementations</li><li>• Understanding the methods of project management and implementation</li><li>• Acquiring the ability to design and use methods in project management and implementation</li></ul>						
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 use his knowledge to create an action plan within the project: he identifies phases of the project life cycle, sets indicators, manages risk and control activities and the team.			[SW2] Assessment of knowledge contained in presentation [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 is able to assess the structure of connections between the tasks carried out within the project and the elements of the project's environment.			[SK3] Assessment of ability to organize work [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 has in-depth knowledge of the economic and legal aspects of running a business and is able to apply it to solving problems in the area of project management.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
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
	Lectures	60.0%	50.0%
	Exercises	60.0%	50.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Efektywne zarządzanie projektami, Wysocki Robert, McGary Rudd, 2017</li> <li>2. Grucza Bartosz, Zarządzanie inteesariuszami projektu., PWE 2019</li> <li>3. Project Management Institute, Inc.: A Guide to the Project Management Body of Knowledge, (PMBOK® Guide)</li> <li>4. Redlarski, Krzysztof. <i>Podstawy metodyki zarządzania projektami w ujęciu klasycznym</i>. Wydawnictwo Politechniki Gdańskiej, 2016.</li> <li>5. Trocki M.: Zarządzanie projektami, PWN Warszawa 2003r;</li> <li>6. Wilczewski S.: MS Project 2010 i MS Project Server 2010. Helion 2011</li> <li>7. Sońta-Drażczkowska Ewa, Zarządzanie projektami we wdrażaniu innowacji., PWE 2018</li> <li>8. Sońta-Drażczkowska Ewa, Zarządzanie wieloma projektami, PWE 2012</li> <li>9. Spalek Seweryn, Zarządzanie projektami w przedsiębiorstwie. Perspektywa czwartej rewolucji przemysłowej., PWE 2020</li> <li>10. Metodyki i standardy zarządzania projektami, pod redakcją Michała Trockiego., PWE 2019</li> </ol>	
	Supplementary literature	<ol style="list-style-type: none"> <li>1. Pritchard Carl L., Zarządzanie ryzykiem w projektach, WIG - PRESS Warszawa 2002;</li> <li>2. Kerzner H.: Project Management a Systems Approach, To Pleanning, Scheduling and Controlling;</li> <li>3. Chatfield C., Johnson T., MicrosoftOffice Project 2010 krok po kroku, RM Warszawa 2011</li> </ol>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. QFD analysis;</li> <li>2. SWOT-TOWS analysis;</li> <li>3. WBS model;</li> <li>4. Critical path method - CPM;</li> <li>5. Earned Value method;</li> <li>6. Risk analysis;</li> <li>7. Commercialization.</li> </ol>		
Work placement	Not applicable		