



Subject card

Subject name and code	, PG_00069830						
Field of study	Mechanical Engineering						
Date of commencement of studies	February 2026	Academic year of realisation of subject				2026/2027	
Education level	second-cycle studies	Subject group					
Mode of study	Part-time studies	Mode of delivery				at the university	
Year of study	1	Language of instruction				Polish	
Semester of study	2	ECTS credits				3.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Division of Manufacturing and Production Engineering -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Dominika Zakrzewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	27.0	0.0	0.0	0.0	0.0	27
	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	27		0.0		0.0	27
Subject objectives	Expanding theoretical and practical knowledge in the field of managing organizations, processes, and teams in the context of mechanical engineering and machine construction. Developing managerial skills necessary for working in a technical environment. Shaping interpersonal and leadership skills. Acquiring the ability to analyze and evaluate management processes.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K7_W11] interprets social, economic, legal (including industrial and intellectual property laws), and other non-technical aspects of engineering activities, and includes them into engineering practice		Student interprets social, economic, legal (including issues related to the protection of industrial property and copyright law), and other non-technical conditions of engineering activities, and takes them into account in engineering practice.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation	
	[K7_U01] utilizes information obtained from the literature and other sources in the field of Mechanics and Mechanical Engineering and presents and analyzes the results of solutions to technical problems in this field		Student uses information obtained from professional literature and other sources in the field of Mechanical Engineering and presents and analyzes the results of solutions to technical problems in this area.			[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information	
	[K7_W04] demonstrates knowledge covering selected topics of advanced specific knowledge, in particular methods, techniques, tools specific to Mechanics and Mechanical Engineering processes, systems and equipment		Student demonstrates knowledge covering selected issues in the field of advanced specialized knowledge, particularly concerning methods, techniques, and tools relevant to processes, systems, and devices within the area of Mechanical Engineering.			[SW1] Assessment of factual knowledge	

Subject contents	<p>Course content – lecture</p> <p>Introduction to management and managerial competencies. Interpersonal and communication skills. Organizational and decision-making skills. Team and project management. Non-technical aspects of engineering. Management support tools. Future competencies and personal development of a manager-engineer.</p>								
Prerequisites and co-requisites	Not applicable								
Assessment methods and criteria	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;">Subject passing criteria</th> <th style="width:33%;">Passing threshold</th> <th style="width:33%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>test</td> <td>60.0%</td> <td>100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	test	60.0%	100.0%
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Recommended reading	Basic literature	<p>Griffin R.W., Podstawy zarządzania organizacjami, Warszawa: PWN.</p> <p>Oleksyn T., Zarządzanie kompetencjami. Teoria i praktyka, Warszawa: Wolters Kluwer, 2017.</p> <p>Drucker P.F., Zarządzanie XXI wieku wyzwania, Warszawa: MT Biznes, 2010.</p>							
	Supplementary literature	<p>Penc J., Zarządzanie i przywództwo. Teoria i praktyka, Warszawa: Difin, 2011.</p> <p>Whetten D.A., Cameron K.S., Developing Management Skills, Pearson, 9th ed., 2019.</p>							
	eResources addresses								
Example issues/ example questions/ tasks being completed	<p>The concept and importance of managerial skills in the work of an engineer. Management styles characteristics and examples of application. The role of an engineer in interdisciplinary teams. Factors influencing effective communication in a technical team.</p>								
Practical activities within the subject	Not applicable								

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