



Subject card

Subject name and code	, PG_00071262						
Field of study	Mechanical Engineering						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
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				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Division of Biomaterials Technology -> 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. Michał Bartmański				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	eNauczanie source addresses: Moodle ID: 4904 Mikrokursy / Uczelnie Przyszłości / Michał Bartmański https://enauczanie.pg.edu.pl/2025/course/view.php?id=4904						
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 aim of the course is to equip students with practical skills in searching, selecting, and evaluating the quality of scientific literature using reputable databases such as Web of Science, Scopus, and Google Scholar. Students will also be introduced to the fundamentals of bibliometrics and will learn how to use Mendeley a reference management tool for organizing literature, managing sources, and automatically generating citations in scientific and engineering papers.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U01] is able to acquire information from specialized literary sources, databases and other resources, essential for solving engineering tasks; is able to compile the obtained information pieces and to interpret them, additionally is able to form conclusions and present justified opinion		The student is able to effectively search for scientific publications using databases (Web of Science, Scopus, Google Scholar), select and interpret the obtained information, and formulate conclusions and opinions based on it while adhering to the principles of scientific integrity.		[SU1] Assessment of task fulfilment		
	[K6_U82] is able to obtain and process information related to field of study and academic environment in foreign language at B2 level of the Common European Framework of Reference for Languages (CEFR)		The student is able to search for, analyze, and process scientific literature in English at the B2 level concerning issues related to biomaterials engineering and the scientific environment, and is able to correctly cite and use these sources in written work using a reference management tool.		[SU1] Assessment of task fulfilment		

Subject contents	<p>Course content – laboratory</p> <p>The course introduces students to the role of scientific literature databases in the work of a biomaterials engineer and develops practical skills in their use within the research process. The principles and functionalities of databases such as Web of Science, Scopus, and Google Scholar are discussed, with particular emphasis on effective search strategies using keywords, Boolean operators, and thematic and time-based filters.</p> <p>Students will learn to evaluate the quality of scientific sources based on bibliometric indicators such as impact factor, h-index, SJR, and SNIP, and to compare available databases in terms of scope, usefulness, and analytical tools. An important component of the course is practical training in the use of the reference management tool Mendeley from account registration and configuration, through importing and organizing publications, to generating citations and bibliographies in various styles (e.g., APA, IEEE, Vancouver) and integrating the software with text editors (Word, LaTeX).</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>Mendeley Official Guides & Tutorials (Elsevier)</p> <p>Web of Science Help & Training Portal</p> <p>Scopus Author & Researcher Guides</p> <p>-</p>	<p>written report</p> <p>56.0%</p> <p>100.0%</p>
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Literature Search 2. Bibliometrics and Quality Assessment 3. Reference Management 		
Practical activities within the subject	Not applicable		

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