

Subject card

Subject name and code	, PG_00056085								
Field of study	Mechanical and Medical Engineering								
Date of commencement of	October 2022		ademic year of			2024/2025			
studies	00.0001 2022		realisation of subject			2024/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technolo					hnology			
Name and surname	Subject supervisor	dr hab. inż. Marek Galewski							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec			SUM	
of instruction	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes including		Participation i consultation h			udy	SUM	
	Number of study hours	15	0.0		0.0		15		
Subject objectives	Teaching students basics of programming in Matlab environment								
Learning outcomes	Course outcome Subject outcome Method of verification						fication		
	[K6_U08] he/she is able to assess whether proposed methods and tools can be used in practice to solve simple engineering task related to machine design, manufacturing and utilization		Student selects tools and programing functions adequate to a given task			[SU4] Assessment of ability to use methods and tools			
	[K6_W13] he/she has knowledge related to application of engineering approaches in medicine or application of medical devices and rehabilitation devices		Student describes applictions of essential programming tools			[SW1] Assessment of factual knowledge			
	[K6_U06] he/she has skills to work in industry and follow the rules of safety regulations, he/she is able to analyze basic economics problems to delineate the direction of solution by using engineering methods		Student processes data files typical for medical applications			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W07] he/she is able to design, manufacture and utilize machine parts and technical devices, he/she can prepare a technical documentation		Student writes simple function / programms in Matlab environment			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Matlab - repetition of basics (matrices, plots, scripts) file operations basics of programming: functions, loops, conditional statements elements of algorithms source code development rules ODE solving signal spectrum calculation								
Prerequisites and co-requisites	Konwledge on the subjects of "basics of IT in medicine"								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Written test	55.0%	65.0%		
		0.0%	0.0%		
	Finishing exercises given during classes	60.0%	35.0%		
Recommended reading	Basic literature	mathworks.com website			
		B. Hahn, D. Valentinr, Essential MATLAB for Engineers and Scientists 2019			
	Supplementary literature	Matlab tutorials			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	A list of examplary tasks / questions will be presented at least 1 mont before the final test				
Work placement	Not applicable				

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