

Subject card

Subject name and code	, PG_00056085									
Field of study	Mechanical and Medical Engineering									
Date of commencement of studies	October 2023		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	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 Technology									
Name and surname	Subject supervisor		dr hab. inż. Marek Galewski							
of lecturer (lecturers)	Teachers									
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Seminar		Seminar	SUM		
	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 include plan			Participation in consultation hours		Self-study		SUM		
	Number of study hours	15	0.0		0.0		15			
Subject objectives	Teaching students basics of programming in Matlab environment									
Learning outcomes	Course out	Subject outcome			Method of verification					
	[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				
	[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_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_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				
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	Finishing exercises given during classes	60.0%	35.0%			
		0.0%	0.0%			
	Written test	55.0%	65.0%			
Recommended reading	Basic literature	mathworks.com website				
		B. Hahn, D. Valentinr, Essential MA 2019	. Hahn, D. Valentinr, Essential MATLAB for Engineers and Scientists, 019			
	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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