

Subject card

Subject name and code	Selected aspects of Machinery Operation, PG_00039387							
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Mechanics	s and Machine	Design -> Faculty of Mechanical Engineering and Ship Technology					
Name and surname of lecturer (lecturers)	Subject supervisor dr hab. inż. Jacek Łubiński							
	Teachers		dr hab. inż. Jacek Łubiński					
			mgr inż. Marek Łubniewski					
			mgr inż. Katarzyna Mazur					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 including plan				Self-study SUM			
	Number of study hours	15		5.0		30.0		50
Subject objectives	The development of the practical approach to the issues of machines' use in real-life conditions with special attention to reliability, planned overhauls, failure preventions and maintaining operational readiness.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_U08		Development of skills in practical application of tools and methods learned to solving engineering problems.			[SU1] Assessment of task fulfilment		
	K6_W07		Integration of skills and knowledge on design and use of mechanical devices (machines)			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Practical analysis of technical problems based on real - life examples.							
Prerequisites and co-requisites	Engineering mechanics, materials science, addition and subrtaction of forces, evaluation of support reactions and load conditions, physical properties of engineering materials. Mathematics: calculus, sumbolic equations manipulation, linear equation systems, trigonometry, vector calculus, differentiation and integration.							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Group work report		50.0%		100.0%			
Recommended reading			Fundamentals of machine design Engineering graphics Mechanical Engineer's handbook Machine Design by Robert L. Norton			1		
	Supplementary literature		Fizyka, Haliday & Resnick The Fabric of Reality, D.Deutsch "Catch 22", Joseph Heller					
	eResources addresse	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Evaluation of the correctness of the assumed design guidelines for an existing mechanical device. Investigation into the cause of repeated failures of a mechanical device. Modification concept for a mechanical device to improve its functioning.							
Work placement	Not applicable	Not applicable						

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