

## Subject card

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Subject name and code	Engineering problems in surgery and orthopedics, PG_00055763								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/	2024/2025		
Education level first-cycle studies		Subject group			field o	Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the	at the university		
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		Włodzimierz Żychliński						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	15.0	0.0		0.0	45	
	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 S		SUM	
	Number of study hours 45			1.0		29.0 75		75	
Subject objectives	Knowledge of the basics of orthopedics and traumatology in terms of human biomechanics.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
			He ethically approaches the patient and his hardships of life in the personal and social aspect			[SK3] Assessment of ability to organize work [SK2] Assessment of progress of work			
	[K6_U10] he/she is able to assess the human body physic and basic functioning of the body organs, he/ she is able to use basic medical knowledge to solve mechanical-medical problems in the scope of the MME study		biomechanics of a healthy and			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W12] he/she has basic knowledge in the field of fundamental medical sciences, human body anatomy, and physiology, salvage service		Appropriately assesses the need for first aid, immobilization and assisted locomotion.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Issues of basic orthopedic diseases, multi-organ trauma, history of orthopedics, principles of operation of the operating block and sterilization room								
Prerequisites and co-requisites	Knowledge of the anatomy of the musculoskeletal system and its biomechanics								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Test		_			90.0%			
	Activity		100.0%			10.0%			

Recommended reading	Basic literature	Chirurgia Narządu Ruchu Tylman		
		Campbells Operative Orthopaedics		
		Choroby układu ruchu Anderson		
		Reumootropedia Sell		
	Supplementary literature	Tom 2. Anatomii Człowieka Bochenek		
		Atlas Anatomii Netter		
		Anatomia i Fizjologia Człowieka Pituch		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	History of orthopedicsAnatomy of limbs, spine,Multiple organ traumaOsteoarthritisConstruction and use of an orthopedic operating tableOperating block, sterilization room			
Work placement	Not applicable			

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