

Subject card

Subject name and code	Engineering problems in surgery and orthopedics, PG_00055763								
Field of study	Wybrane zagadnienia z chirurgii i ortopedii dla inzynierów								
Date of commencement of	October 2023		2025/2026						
studies			Academic year of realisation of subject			2020/	2025/2026		
Education level	first-cycle studies		Subject group			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 -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		Włodzimierz Żychliński						
of lecturer (lecturers)	Teachers								
Lesson types	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		tudy	SUM	
	Number of study hours	45		1.0)			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			
	[K6_W12] he/she has basic knowledge in the field of fundamental medical sciences, human body anatomy, and physiology, salvage service		assisted locomotion.			[SW2] Ocena wiedzy zawartej w prezentacji [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym			
	[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		Correctly evaluates the biomechanics of a healthy and sick person			[SU2] Ocena umiejętności analizy informacji [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu			
	[K6_K02] he/she is aware of importance of professional dealing and to fulfill ethics obligations, he/she understands other (non-technical) abilities of mechanical engineering professional, their influence on the society and security of environment, he/she is aware of importance of social cooperation		He ethically approaches the patient and his hardships of life in the personal and social aspect			[SK3] Ocena umiejętności organizacji pracy [SK2] Ocena postępów pracy			
Subject contents	Course content – lecture 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			
	Activity		100.0%		10.0%				
	Test		51.0%			90.0%			

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Decemmended reading	Basic literature	Chirurgia Narządu Ruchu Tylman			
Recommended reading	Dasic incrature	Childigia Walządu Ruchu Tymnan			
		Campbells Operative Orthopaedics			
		Choroby układu ruchu Anderson			
		Choloby unadu ruchu Anderson			
		Reumootropedia Sell			
	Supplementary literature	Tom 2. Anatomii Człowieka Bochenek			
	''				
		Atlas Anatomii Netter			
		Alias Aliatolliii Nettei			
		Anatomia i Fizjologia Człowieka Pituch			
	eResources addresses				
Example issues/					
example questions/					
tasks being completed					
tasks being completed	History of orthographics Areasons of limbo arrive Markin Is arrespondence of the continue from and trace of				
	History of orthopedicsAnatomy of limbs, spine,Multiple organ traumaOsteoarthritisConstruction and use of an orthopedic operating tableOperating block, sterilization room				
	an oranopoulo operating table operati	ang blook, otomization room			
Practical activites within	Not applicable				
the subject					
the subject					

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