



## Subject card

Subject name and code	Advanced problems on anatomy and physiology, PG_00057487						
Field of study	Mechanical and Medical Engineering						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2023/2024		
Education level	second-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 university		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
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 of lecturer (lecturers)	Subject supervisor		Włodzimierz Żychliński				
	Teachers		Włodzimierz Żychliński				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	30.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study	SUM	
	Number of study hours	30	3.0		17.0	50	
Subject objectives	Established knowledge of basic issues of human anatomy, physiology and pathophysiology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U01] He/she is able to teach himself/herself, to acquire knowledge referring to the papers, databases and other sources, also in foreign languages, to solve engineering tasks. He/she can integrate and interpret information, to draw conclusions and justify his/her own opinions		Proper assessment of examination of moving system in the contexts of personal difficulties		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_U13] He/she uses in-depth knowledge related to the diagnoses techniques and medical procedures in the scope of the field of study of mechanical-medical engineering		Correctly named partes of human moving system. Make correctly analyzes of Ca, P economy of skeletal and muscles systems.		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Aspects of anatomy and physiology moving system. Histology of bone and muscles.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Activity		100.0%		10.0%		
	Exam		51.0%		90.0%		
Recommended reading	Basic literature		Anatomia Człowieka Bochenek  Atlas anatomii Netter  Atlas anatomii czynnościowej Kapandija				

	Supplementary literature	Anatomia człowieka Pituchowa
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Anatomy and functional anatomy of upper limb Anatomy and functional anatoly of lower limb Osteoporosis pathophysiology Histology of bone and muscles	
Work placement	Not applicable	