



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 2023		Academic year of realisation of subject		2022/2023		
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_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 analizes of Ca, P economy of skeletal and muscles systems.		[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
	[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 assestment of examination of moving system in the contexts od personal difficulties		[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
Subject contents	Aspects of anatomy and phisiology mooving system. Histology of bone and muscles.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Exam		51.0%		90.0%		
	Activity		100.0%		10.0%		
Recommended reading	Basic literature		Anatomia Człowieka Bochenek				
			Atlas anatomii Netter				
			Atlas anatomii czynnościowej Kapandija				

	Supplementary literature	Anatomia człowieka Pituchowa
	eResources addresses	Uzupełniające 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	