

## Subject card

Subject name and code	Biochemistry, PG_00039317								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of	October 2020		. 3			i			
studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics	Design -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		Julian Świerczyński						
of lecturer (lecturers)	Teachers	Julian Świerczyński							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	tory Project		Seminar	SUM	
of instruction	Number of study hours	8.0	0.0	0.0	0.0		7.0	15	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: Biochemia - Moodle ID: 22279 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22279								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		3.0		7.0		25	
Subject objectives	To get knowledge about: a) chemical composition of human body; b) structure and function of enzymes; c) metabolic pathways of carbohydrates, lipids, proteins and nucleic acids; d) human bioenergetics processess; e) structure and functions of hormones and vitamins; f) aparatus used in biochemicals studies.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U01		Student is able to find new biochemical information, make correct interpretation and express correct conclussion.			[SU4] Assessment of ability to use methods and tools			
	K6_W03		Student has basic knowledge about metabolic processess undergoing in human body and understand the effect of external environment on these processess.			[SW1] Assessment of factual knowledge			
Subject contents	Chemical composition of human body. Structure and function of enzymes. Structure and metabolism of carbohydrates, lipids, proteins and nucleic acids. Structure and function of some hormones and vitamins. Effect of external environment on human metabolism. Aparatus used in biochemical studies.								
Prerequisites and co-requisites	Basic chemistry and biology								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	At the end of course student will have to write test containing 30 questions (for example: see below). The minimum pass mark is 18 correct answers.		60.0%			100.0%			
Recommended reading	Basic literature	Edward Bańkowski, Biochemia. Podręcznik dla studentów studiów licencjackich i magisterskich. Wydanie II. MedPharm Polska, 2013rok.							

Data wydruku: 10.04.2024 01:18 Strona 1 z 2

	Supplementary literature	Biochemia Harpera, Redakcja naukowa tłumaczenia: Franciszek Kokot, Aleksander Koj, Andrzej Kozik, Tadeusz Wilczok PZWL, 2008 rok      Medical Biochemistry, John W Baynes, Marek H. Dominiczak, Second Edition, Elsevier/Mosby 2005 rok			
	eResources addresses	Biochemia - Moodle ID: 22279 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22279			
Example issues/ example questions/ tasks being completed	Urea is the main end catabolic product of:				
	a) carbohydrates				
	b) lipids				
	c) proteins				
	d) nucleic acids				
	e) xenobiotics				
Work placement	Not applicable				

Data wydruku: 10.04.2024 01:18 Strona 2 z 2