

## GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Selected aspects of cardiology, PG_00023327								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/	2021/2022		
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	2		Language of instruction			Polish	Polish		
Semester of study	4		ECTS credits			1.0	1.0		
Learning profile	general academic profile		Assessmer	Assessment form			assessment		
Conducting unit	Institute of Mechanics	cs and Machine Design -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. lek.med. Janusz Sieber				t		
	Teachers		prof. dr hab. lek.med. Janusz Siebert						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0		15.0	15	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
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	15		3.0		7.0		25	
Subject objectives	Diagnostic tools in cardiology								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	К6_U10		Student can evaluate the diagnostic information as a medical engeener			[SU2] Assessment of ability to analyse information			
	K6_K02		1.shows respect towards the patient and understanding of the ideological and cultural differences 2. complies with the medical secrecy obligation and honours all patient's rights			[SK4] Assessment of communication skills, including language correctness			
	K6_U11		Has ability to use ICG, ECG, USG, echocardiography			[SU4] Assessment of ability to use methods and tools			
	K6_W12		Can describe the main field of medicine. Has knowledge about the diagnostic methode in cardiology			[SW2] Assessment of knowledge contained in presentation			

1. Basic concepts of electrocardiography /ECG/         2. Basic concepts of impedance cardiography /ICG/.         3. Basic concepts of echocardiography.         4. Basic concepts of ultrasonography.         4. Basic concepts of ultrasonography.         5. Basic concepts of ultrasonography.         6. Basic concepts of electrotherapy /pacemaker therapy (AAI, VVI, DDD)/         6. Invasive procedures in cardiology / PTCA/         7. Principles of cardiosurgery         Recommended reading         Basic Iterature       Seminar multimedia presentations updated yearly         external treature       Seminar multimedia presentations updated yearly         1. "ECGs by Example" Dean Jenkins, Stephen Gerred, Elsevier, 3rd edition, 2011.         Supplementary literature       B. Supplementary literature         Bupplementary literature       B. Supplementary literature         Bupplementary literature       B. Supplementary literature         Priscial principles of ECG       Physical principles of ECG         Physical principles of USG       Pacemarcer therapy	Subject contents	Diagnostic tools in cardiology						
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Physical principles of USG Pacemarcer therapy	Example issues/ example questions/							
	lasks being completed	Physical principles of USG						
Work placement Not applicable		Pacemarcer therapy						
	Work placement	Not applicable						