University of Gdańsk

Subject card

Subject name and code	Medical Physics in Cardiology, PG_00206989		
Field of study	Medical Physics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	6	ECTS credits	1.0
Learning profile	academic	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	Anna Glińska	
	Teachers	Anna Glińska	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	0.0	0.0	15

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	15	0.0	0.0	15

Subject objectives

The aim of the course is to familiarize students with diagnostic imaging methods used in cardiology.

Learning outcomes

Course outcome	Subject outcome	Method of verification
FIZMEDL3_W32	The student possesses extended knowledge of the physical methods used in cardiovascular diagnostic imaging, including the principles of electrocardiography, ultrasonography, computed tomography, magnetic resonance imaging, and nuclear imaging techniques applied in cardiology.	[SW4] test/exam - oral or written
[FIZMEDL3_K01] knows the limitations of his own knowledge and understands the need for further education	The student is aware of the limitations of their own knowledge in the field of cardiac diagnostic imaging and understands the need for continued, systematic learning in this area.	[SK4] test/exam - oral or written

Subject contents

Introduction and historical background
Electrocardiography
Ultrasonography in cardiology
Computed tomography in cardiology
Magnetic resonance imaging in cardiology
Isotopic (nuclear) methods in cardiology

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	51.0%	100.0%

Recommended reading	Basic literature	original teaching materials published on the UG portal and in the GUMed Extranet
	Supplementary literature	original teaching materials published on the UG portal and in the GUMed Extranet
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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