

Subject card

Subject name and code	Fundamentals of radiology and quality control in radiology, PG_00154146						
Field of study	Medical Physics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	undergraduate 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	3		Language of instruction		Polish not applicable		
Semester of study	5		ECTS credits		5.0		
Learning profile	academic		Assessment form				
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rektor						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Małgorzata Grzywińska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	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	60		0.0		90.0	150
Subject objectives	not applicable						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FIZMEDL3_W25] knows and understands the physical and instrumental basis of classical X-ray diagnostics, tomographic techniques and other modern radiological methods and quality control methods	not applicable	[SW4] test/exam - oral or written
	[FIZMEDL3_W31] has detailed knowledge of the construction and principles of operation of X-ray and diagnostic imaging equipment and other devices used in X-ray equipment, angiographs, ultrasound machines, computed tomography and nuclear magnetic resonance devices, principles of performing computed tomography and nuclear magnetic resonance examinations, conventional and Doppler ultrasound examinations, mammography	not applicable	[SW4] test/exam - oral or written
	[FIZMEDL3_U15] can explain to the patient the course of the diagnostic examination and the rules of conduct after the examination, resulting from the principles of radiological protection of the environment	not applicable	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[FIZMEDL3_U17] is able to prepare diagnostic and therapeutic procedures using ionizing and non-ionizing radiation in accordance with medical recommendations	not applicable	[SU3] text preparation/written work [SU4] test/exam - oral or written
	[FIZMEDL3_U18] can operate radiological equipment	not applicable	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[FIZMEDL3_U19] has the ability to evaluate and interpret research within the competence of a medical physicist	not applicable	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[FIZMEDL3_U20] knows the principles of quality control of radiological equipment, the principles of organizing diagnostic laboratories and keeping their documentation	not applicable	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[FIZMEDL3_U21] knows the principles of dosimetry and radiological protection: dose measurement, control of therapeutic equipment parameters	not applicable	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[FIZMEDL3_K01] knows the limitations of his own knowledge and understands the need for further education	not applicable	[SK2] presentation/project/paper/report [SK4] test/exam - oral or written
[FIZMEDL3_K14] complies with work safety rules	not applicable	[SK2] presentation/project/paper/report	
Subject contents	not applicable		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	not applicable	51.0%	50.0%
	not applicable	51.0%	50.0%
Recommended reading	Basic literature	not applicable	
	Supplementary literature	not applicable	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	not applicable		
Work placement	Not applicable		

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