University of Gdańsk

Subject card

Subject name and code	Radiobiology, dosimetry, radiological protection, patient radiation protection course, PG_00155886						
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			
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	credit			
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Tomasz Bandurski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	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						

<table>
<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[FIZMEDL3_W28] knows the basics of radiobiology, radiobiological knowledge needed to pass a patient's radiological protection course and - after obtaining a bachelor's professional title - allowing to obtain the qualifications of a radiological protection inspector</td><td>not applicable</td><td>[SW4] test/exam - oral or written</td></tr>
<tr><td>[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</td><td>not applicable</td><td>[SW4] test/exam - oral or written</td></tr>
<tr><td>[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</td><td>not applicable</td><td>[SU4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_K14] complies with work safety rules</td><td>not applicable</td><td>[SK4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_K01] knows the limitations of his own knowledge and understands the need for further education</td><td>not applicable</td><td>[SK4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_U19] has the ability to evaluate and interpret research within the competence of a medical physicist</td><td>not applicable</td><td>[SU4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_U17] is able to prepare diagnostic and therapeutic procedures using ionizing and non-ionizing radiation in accordance with medical recommendations</td><td>not applicable</td><td>[SU4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_U18] can operate radiological equipment</td><td>not applicable</td><td>[SU4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_U20] knows the principles of quality control of radiological equipment, the principles of organizing diagnostic laboratories and keeping their documentation</td><td>not applicable</td><td>[SU4] test/exam - oral or written</td></tr>
<tr><td>[FIZMEDL3_U21] knows the principles of dosimetry and radiological protection: dose measurement, control of therapeutic equipment parameters</td><td>not applicable</td><td>[SU4] test/exam - oral or written</td></tr>
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<tr><td>Subject contents</td><td>not applicable</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>not applicable</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>not applicable</td></tr>
<tr><td>Supplementary literature</td><td>not applicable</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>not applicable</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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