University of Gdańsk

Subject card

Subject name and code	, PG_00155887		
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 not applicable
Semester of study	6	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 hab. Anna Synak	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	120.0	0.0	0.0	120

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	120	0.0	30.0	150

Subject objectives

The aim of the internship is to familiarize Medical Physics students with the work carried out in healthcare institutions whose activities are related to their professional competencies. The internship is designed to develop practical skills that are essential for their future professional careers and to introduce students to employment opportunities in the healthcare sector.

The internship has both a laboratory and observational character. It involves becoming familiar with the structure and operation of medical equipment, as well as the organizational structure of the host institution. Students observe the work of medical physicists and perform tasks assigned by the internship supervisor. They expand the knowledge acquired during their studies by applying theoretical concepts in practice and develop the ability to carry out assigned tasks independently and responsibly.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[FIZMEDL3_U16] is able to communicate effectively with co-workers and other employees, is able to work in a team, and is able to properly manage his and his co-workers' time	Communicates clearly and professionally with the internship supervisor and healthcare staff, exchanging information necessary for the completion of assigned tasks. Works effectively as a member of the healthcare team, respecting the roles and responsibilities of other professionals. Plans and organizes their work effectively, manages time efficiently, and completes assigned tasks within the required deadlines.	[SU2] presentation/project/paper/ report
[FIZMEDL3_K04] understands and appreciates the importance of legal aspects of conducting research and intellectual honesty	Complies with the regulations and procedures in force at the internship institution while carrying out assigned tasks. Acts in accordance with the principles of professional ethics, maintains the confidentiality of information, and respects patients' rights. Performs assigned tasks responsibly and conscientiously, demonstrating an awareness of the consequences of their actions and a commitment to quality and safety in the workplace.	[SK2] presentation/project/paper/ report
[FIZMEDL3_K10] has the ability to operate in conditions of uncertainty and stress	Remains calm and follows established procedures while performing tasks in situations requiring particular attention and responsibility. Adapts the way assigned tasks are performed to changing working conditions and the instructions provided by the internship supervisor. Organizes their own work effectively, sets appropriate priorities, and completes assigned tasks in a timely manner within the clinical environment.	[SK2] presentation/project/paper/ report
[FIZMEDL3_K03] is aware of and understands the social aspects of the practical application of acquired knowledge and skills and the related responsibility	Recognizes the impact of the medical physicist's work on the quality and safety of healthcare services and on the effective functioning of the multidisciplinary healthcare team. Performs assigned tasks responsibly, ensuring their quality and compliance with established standards and procedures. Recognizes the importance of effective communication and collaboration with healthcare professionals in ensuring safe and effective patient care.	[SK2] presentation/project/paper/ report
[FIZMEDL3_U23] can identify errors and omissions in practice	Assesses whether performed activities comply with the applicable procedures and safety regulations at the internship site. Draws conclusions from observed errors and uses them to improve the performance of assigned tasks.	[SU2] presentation/project/paper/ report
[FIZMEDL3_K11] puts the patient's well-being first	Places the patient's well-being as the highest priority in the performance of assigned tasks. Applies knowledge of radiation protection to safeguard the health of patients and co-workers and complies with occupational health and safety regulations.	[SK2] presentation/project/paper/ report

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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[FIZMEDL3_W18] knows the general principles of creating and developing forms of individual entrepreneurship using knowledge in the field of medical physics</td><td>Describes the organization and operating principles of the institution where the internship is carried out and the role of the medical physicist within its structure.
Recognizes career development opportunities and forms of employment available to medical physicists in the healthcare sector.
Identifies the basic principles of work organization and quality management in an institution providing medical physics services.</td><td>[SW2] presentation/project/paper/ report</td></tr>
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<tr><td>Subject contents</td><td>The internship content is tailored to the profile of the host institution and covers topics relevant to the specific unit, particularly in the areas of:

• Radiotherapy,
• Radiology,
• Nuclear Medicine.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Completion of the preparatory course for the internship in a healthcare institution and occupational health and safety training.</td></tr>
<tr><td>Assessment methods and criteria</td><td>
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<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 rowspan="3">Recommended reading</td><td>Basic literature</td><td>Literature recommended by the internship supervisor.</td></tr>
<tr><td>Supplementary literature</td><td>not applicable</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<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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