

Subject card

Subject name and code	Telemedicine and e-health, PG_00137113						
Field of study	Management of Healthcare Institutions						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2025/2026		
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		
Semester of study	5	ECTS credits			1.0		
Learning profile	practical	Assessment form			credit		
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Jacek Maślankowski				
	Teachers		dr Jacek Maślankowski				
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 the current issues of telemedicine and e-health, primarily in the field of building information systems in this area.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	<p>[ZISZL3_W05] He/she has advanced knowledge of the environment of health care units and the changes taking place in them, as well as the relation, significance and impact of the environment and stakeholders on the functioning of health care units. He/she knows the basic methods of diagnosing the macro- and micro-environment of health care units.</p>	<p>Has basic knowledge in the discipline of management and quality science and understands its relationships with other social sciences.</p> <p>Knows and understands, at an advanced level, the relationships between the disciplines: management and quality science, economics and finance, social communication and media science, legal science and sociological science, which are crucial for understanding the essence of effective and efficient management of healthcare units.</p> <p>Has knowledge of healthcare units, determinants shaping the effectiveness of their activities, taking into account regional and international aspects.</p>	<p>[SW4] test/exam - oral or written</p>
	<p>[ZISZL3_K02] He/she has an analytical approach to problem solving, he/she is able to independently search for solutions and use the opinions of experts.</p>	<p>Able to critically analyze received content with particular emphasis on social and economic sciences.</p> <p>Has an analytical approach to problem-solving, is able to independently search for solutions, and also use expert opinions.</p> <p>Recognizes the complexity of social problems in the area of health care on a micro and macro scale.</p> <p>Understands the need and is aware of behaving in professional life in an ethical, balanced and socially responsible manner.</p> <p>Approaches the social role of the profession it represents in a responsible and ethical manner.</p> <p>Is aware of the continuous improvement and deepening of knowledge both in academic mode.</p>	<p>[SK4] test/exam - oral or written</p>

	Course outcome	Subject outcome	Method of verification
	<p>[ZISZL3_U05] He/she can correctly select and apply methods and tools used in, inter alia, in management and quality sciences, economics, and sociological sciences, adequate to the problem and specificity of managing medical entities.</p>	<p>Takes into account the legal, ethical, social, ecological and economic consequences of a decision in the decision-making process, while taking into account the specifics of the functioning of medical entities and the well-being of the patient</p> <p>Can apply the acquired knowledge from a specific area of management and quality sciences in professional practice, including the management of medical entities</p> <p>Can correctly select and apply methods and tools used in, among others, management and quality sciences, economics, sociological sciences, adequate to the problem and specifics of managing medical entities</p> <p>Correctly uses terminology from the field of economic sciences, especially from the discipline of management and quality sciences, clearly and communicatively expresses his/her point of view, using Polish and a foreign language.</p> <p>Has the ability to formulate hypotheses and goals and solve a research problem using the literature on the subject and appropriately selected research methods.</p> <p>Has the ability to prepare written works, multimedia presentations, present them and lead discussions (in Polish and a foreign language)</p>	<p>[SU4] test/exam - oral or written</p>
	<p>[ZISZL3_U01] Student is able to correctly interpret socio-economic phenomena, current events in economic policy, economy, especially in the field of health protection in the social and economic dimension, as well as independently formulate his/her own opinions in this regard and propose adequate solutions in the event of changes taking place in these areas.</p>	<p>Takes into account the legal, ethical, social, ecological and economic consequences of a decision in the decision-making process, while taking into account the specifics of the functioning of medical entities and the well-being of the patient</p> <p>Can apply the acquired knowledge from a specific area of management and quality sciences in professional practice, including the management of medical entities</p> <p>Can correctly select and apply methods and tools used in, among others, management and quality sciences, economics, sociological sciences, adequate to the problem and specifics of managing medical entities</p> <p>Correctly uses terminology from the field of economic sciences, especially from the discipline of management and quality sciences, clearly and communicatively expresses his/her point of view, using Polish and a foreign language.</p> <p>Has the ability to formulate hypotheses and goals and solve a research problem using the literature on the subject and appropriately selected research methods.</p> <p>Has the ability to prepare written works, multimedia presentations, present them and lead discussions (in Polish and a foreign language)</p>	<p>[SU4] test/exam - oral or written</p>

Subject contents	<ol style="list-style-type: none"> 1. Introduction to medical informatics (telemedicine and e-health) 2. Central node of IT services and trusted profile 3. Telemedicine services in the context of the information society 4. Electronic identification of patients 5. Profiling medical data 6. Cybersecurity issues 7. Aspects of data quality in healthcare 8. Protection of personal data in the scope of medical services 9. Telemedicine and administrative law 		
Prerequisites and co-requisites	Basic knowledge of computer office packages		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam - test	51.0%	100.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Wrycza S., Maślankowski J. (red.). Informatyka ekonomiczna. Teoria i zastosowania., PWN, 2019 (rozdział: Suomi R., Informatyka medyczna) 2. Lipowicz I., Szpor G., Świerczyński M., Telemedycyna i e-Zdrowie. Prawo i informatyka, Wolter Kluwer. Warszawa 2019 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Materials on Education Platform 2. Tadeusiewicz R., Informatyka medyczna, UMCS 2011 	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Questions like: List the components of a telemedicine system, describe the architecture of e-health systems		
Work placement	Not applicable		

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