

## Subject card

Subject name and code	Engineering problems in laryngology, PG_00055754								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics	and Machine	Design -> Facເ	ulty of Mechani	cal Eng	ineering	and Ship Tec	hnology	
Name and surname	Subject supervisor		Andrzej Skorek						
of lecturer (lecturers)	Teachers		Andrzej Skorek						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan				Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	Obtaining basic knowledge in the field of ENT, necessary in the work of a medical engineer.								
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	[K6_U10] he/she is able to assess the human body physic and basic functioning of the body organs, he/she is able to use basic medical knowledge to solve mechanical-medical problems in the scope of the MME study		The student is able to describe the structure of the human body and the functioning of the head and neck organs to a basic degree. He can explain the principles of operation of the organs of the head and neck to the extent that allows to combine medical knowledge with the knowledge of the polytechnic			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W12] he/she has basic knowledge in the field of fundamental medical sciences, human body anatomy, and physiology, salvage service		The student is aware of the importance of combining knowledge in the field of otolaryngology with the knowledge of the operation and use of basic equipment and medical devices			[SW1] Assessment of factual knowledge			
	[K6_K02] he/she is aware of importance of professional dealing and to fulfill ethics obligations, he/she understands other (nontechnical) abilities of mechanical engineering professional, their influence on the society and security of environment, he/she is aware of importance of social cooperation		The student is aware of the importance of professional conduct and compliance with the rules of professional ethics, understands the non-technical aspects of a mechanical engineer's activity			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Physiology, pathophysiology of the basic diseases of the ear, nose, throat, larynx. Urgency in otolaryngology. Basic procedures in otolaryngology. Basic instruments in the diagnosis and surgical treatment of head and neck diseases.								
Prerequisites and co-requisites	Basic knowledge of the anatomy of the head and neck. Basic information on the construction of diagnostic devices in medicine.								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Final credit – oral	50.0%	50.0%			
	Assessment work – written	50.0%	50.0%			
Recommended reading	Basic literature	Niemczyk K. Wykłady z otolaryngologii. MedPage, 2012				
	Supplementary literature	lwaszkiewicz J. Otolaryngologia dla studentów medycyny . PZWL 1967.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Surgical drills used in otolaryngology - structure, principle of operation.  Medical lasers used in otolaryngology - structure, principle of operation, the most common causes of failure.  Da Vinci robot in otolaryngology - indications, structure, principle of operation.  Endoscopes in otolaryngology - structure, principle of operation.  Devices for heating the laryngeal mirror - prototype.					
Work placement	Not applicable					

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