



Subject card

Subject name and code	Engineering Problems in Laryngology, PG_00064128						
Field of study	Mechanical and Medical Engineering						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
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 -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	Andrzej Skorek					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan	Participation in consultation hours	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 outcome	Subject outcome			Method of verification		
	[K6_K02] 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		
	[K6_W01] has knowledge in the field of natural sciences, including mathematics, contemporary physics, chemistry, and human anatomy with physiology	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_U08] is able to assess the human body physic and functioning of the body organs and is able to use medical knowledge to solve mechanical-medical problems in the scope of the 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		
Subject contents	Course content – laboratory Physiology, pathophysiology of the basic diseases of the ear, nose, throat, larynx. Urgency in otolaryngology. Basic procedures in otolaryngology. <u>Basic instruments in the diagnosis and surgical treatment of head and neck diseases.</u>						
Prerequisites and co-requisites	Basic knowledge of the anatomy of the head and neck. Basic information on the construction of diagnostic devices in medicine.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	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	Iwaszkiewicz J. Otolaryngologia dla studentów medycyny . PZWL 1967.	
	eResources addresses		
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.		
Practical activities within the subject	Not applicable		

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