



## Subject card

Subject name and code	Selected aspects of otolaryngology, PG_00023328						
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2021/2022		
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						
Name and surname of lecturer (lecturers)	Subject supervisor		Waldemar Narożny				
	Teachers		Waldemar Narożny				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	15.0	15
	E-learning hours included: 0.0						
	Adresy na platformie eNauczanie:						
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		3.0		7.0	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_W12		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		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_U10		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	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.						

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.		
Work placement	Not applicable		