



Subject card

Subject name and code	Technical Aspects in Dentistry, PG_00064146						
Field of study	Mechanical and Medical Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028	
Education level	first-cycle studies		Subject group			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	3		Language of instruction			Polish	
Semester of study	6		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		Beata Siebert				
	Teachers						
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		1.0		9.0	25
Subject objectives	Introduction to basic knowledge of the human body physic and basic functioning of the body organs as well as to basic knowledge of the construction and function of basic medical equipment. Getting acquainted with the basic technologies used in dental implantology. Mastering basic medical knowledge to solve mechanical-medical problems in the scope of the MME study.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[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 use knowledge of the basic structure and functioning of the human body in issues related to dentistry.			[SU3] Assessment of ability to use knowledge gained from the subject	
	[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		He/she understands other (non-technical) abilities of mechanical engineering professional, their influence on the society and security of environment. He/she is aware of importance of professional dealing and to fulfill ethics obligations.			[SK4] Assessment of communication skills, including language correctness	
	[K6_U09] is able to use basic medical equipment and devices or has knowledge of medical imaging appropriate for the program		The student is able to apply knowledge of the construction and functioning of basic dental equipment.			[SU3] Assessment of ability to use knowledge gained from the subject	
	[K6_W01] has knowledge in the field of natural sciences, including mathematics, contemporary physics, chemistry, and human anatomy with physiology		The student understands the application of engineering to dentistry and the design and operation of basic dental equipment. He or she possesses a basic understanding of basic medical sciences and the anatomy and physiology of the human body.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation	

Subject contents	Course content – lecture <i>Implant Dentistry: Theory and Practice.</i> Implant treatment planning with basic concepts of <i>anatomy</i> . <i>Hard tissue augmentation techniques, immediate implantation, full implant-prosthetic reconstructions,</i> <i>Temporomandibular joint disorders.</i>								
Prerequisites and co-requisites	Basic knowledge of biology, mathematics and chemistry.								
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Lectures attendance is mandatory. The consequence of the absence is an additional written test covering the material from the missed lectures.</td><td>80.0%</td><td>100.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Lectures attendance is mandatory. The consequence of the absence is an additional written test covering the material from the missed lectures.	80.0%	100.0%		
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Recommended reading	Basic literature	Matteo Chiapasco: Chirurgia stomatologiczna. Edra Urban&Partner, Wrocław 2020							
	Supplementary literature	-----							
	eResources addresses								
Example issues/ example questions/ tasks being completed									
Practical activities within the subject	Not applicable								

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