



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 2026	Academic year of realisation of subject				2028/2029	
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	<p>Course content – lecture <i>Implant Dentistry: Theory and Practice.</i> Implant treatment planning with basic concepts of <i>anatomy</i>.</p> <p><i>Hard tissue augmentation techniques, immediate implantation, full implant-prosthetic reconstructions,</i></p> <p><i>Temporomandibular joint disorders.</i></p>								
Prerequisites and co-requisites	Basic knowledge of biology, mathematics and chemistry.								
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 416 786 443">Subject passing criteria</th> <th data-bbox="799 416 1139 443">Passing threshold</th> <th data-bbox="1152 416 1482 443">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 450 786 568">Lectures attendance is mandatory. The consequence of the absence is an additional written test covering the material from the missed lectures.</td> <td data-bbox="799 450 1139 568">80.0%</td> <td data-bbox="1152 450 1482 568">100.0%</td> </tr> </tbody> </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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