GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Introduction to medical sciences, PG_00056083		
Field of study	Mechanical and Medical Engineering		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	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	prof. dr hab. lek. Janusz Siebert	
	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	0.0	0.0	15

Subject objectives

The aim of the course is to familiarize students to the examination and basic medical diagnosis of internal diseases, in particular:

medical interview;
proper examination techniques;
correct interpretation of abnormalities found in physical examination;
basic knowledge of diagnostics of the diseases listed in the curriculum;
principles of differential diagnosis

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U09] is able to use basic medical equipment and devices or has knowledge of medical imaging appropriate for the program	Student can use basic diagnostic tools.	[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	Student can build and maintain the contact with the patient based on deep respect. Student shows respect towards the patient and understanding of the ideological and cultural differences.	[SK4] Assessment of communication skills, including language correctness
[K6_U01] is able to acquire knowledge and self-studying, he/she is able to find needed information in specialist books, databases and other sources, he/she is able to integrate information and draw conclusions, he/she is able to communicate by using different technics in work and outside	Student has the habit and skill of continuous furthering his/her educations.	[SU5] Assessment of ability to present the results of task

Subject contents

Course content – laboratory
1. Circulation a. Physical examination b. Most common symptoms c. Coronary heart disease d. Hypertension e. Myocardial infarction f. Heart failure g. Pulmonary emboliom h. Deep tein thrombosis 2. Respiratory system a. Physical examination b. Most common symptoms c. Pneumonia d. Bronchitis e. COPD f. Lung cancer 3. Digestive system a. Physical examination b. Most common symptoms c. Pharyngitis d. Diarrhea e. Cholelithiasis f. Peptic ulcer disease g. Crohn disease h. Colon cancer 4. Urinary tract a. Most common symptoms b. Urinary tract infection c. Kidney failure 5. Skin a. Physical examination b. Most common symptoms, pictures 6. Not classified a. Diabetes mellitus b. Thyroid gland diseases c. Osteoporosis

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Basics of physiology, anatomy and biochemistry</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Term credit</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">1. Materiały z zajęć 2. Andrzej Szczeklik. Choroby wewnętrzne. Przyczyny, rozpoznanie i leczenie. Rok wydania: 2006 r., Wydawca: Medycyna Praktyczna</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">1. red. Andrzej Szczeklik i Piotr Grajewski. Kompendium. Choroby wewnętrzne Wydawca: Medycyna Praktyczna Rok wydania: 2009</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">-</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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